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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. T. Venkata M Jarubmi

2. Designation : Asst Professor

3. Department : Electrical and Electronics Engineering

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: -----------------

   Microsoft Certified Azure Data Engineer Associate

5. Date & Duration of the Program: 31/03/2023

6. Associating Professional Body / Agency:

7. Financial support particulars:

   i. Registration Charges: 3000/-
   ii. Travelling Allowances:
   iii. Membership Fee :
   iv. Others (if any) :

Date: 03/04/2023

Signature of the Staff Member

1. Recommendations of the HOD: --------
2. Recommendations of the Principal: --------
3. Recommendations of the IQAC: --------

*Sanctioned / Not Sanctioned

Account Department
Accountant: B. ola
Date: 3/4/23

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SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA-521 108.

VOUCHER Date 31/12/2023

SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

No.

Name of A/c..

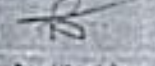Paid to T. Venkata M Lakshmi Cash/Cheque........ cash

the Sum of Rupees Three thousand rupees only.
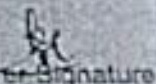
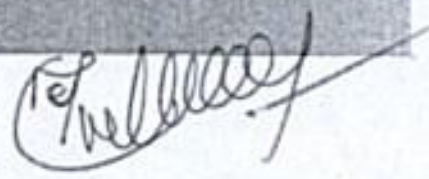Towards Microsoft certified : Azure Data Engineer

Associate

Prepared by

Approved by

Audited by

₹ 3,000/-

Receiver Signature

PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA-521 108.

C

Microsoft

ASSOCIATE

Thati Venkata M Lakshmi

(Legal name: THATI VENKATA M LAKSHMI)

has successfully achieved the certification

Microsoft Certified: Azure Data Engineer Associate

Date of achievement: March 31, 2023

Valid until: April 1, 2024

Certification Number: I684-7251

Satya Narayana Nadella

PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY
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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. .... S. Nageswara Rao

2. Designation : .... Asst Professor

3. Department : Electrical and Electronics Engineering

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: --

Microsoft Certified Azure Data Engineer Associate

5. Date & Duration of the Program: 31/03/2023

6. Associating Professional Body / Agency:

7. Financial support particulars:

    i.   Registration Charges: 3000/-
    ii.   Travelling Allowances:
    iii.   Membership Fee   :
    iv.   Others (if any)   :

Date: 03/04/2023

Signature of the Staff Member

1. Recommendations of the HOD: ---------
2. Recommendations of the Principal: ---------
3. Recommendations of the IQAC: ---------

*Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 1/4/23

VOUCHER

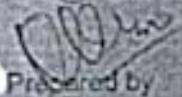No. _____ Date 3/4/2023

SRK INSTITUTE OF TECHNOLOGY
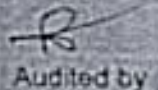### ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c _____

Paid to S. NAGESWARA RAO Cash/Cheque cash

the Sum of Rupees Three thousand rupees only

Towards Certification (Microsoft certified : Azure Data
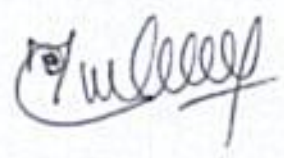
Engineer Associate)

Prepared by   Approved by   Audited by

₹ 3,000/-   Receiver Signature

PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA-521 108.

(i) 20-1-2-3-3

Microsoft

ASSOCIATE

S Nageswara Rao

(Legal name: Nageswara Rao Sikha)

has successfully achieved the certification

Microsoft Certified: Azure Data Engineer Associate

Date of achievement: March 31, 2023

Valid until: April 1, 2024

Certification Number: I684-6398

Satya Narayana Nadella

PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY
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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. T. Venkata M. lakshmi

2. Designation : Asst. Professor

3. Department : Electrical and Electronics Engineering

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: ------

   Microsoft Certified Azure Administrator Associate

5. Date & Duration of the Program: 29|03|2023

6. Associating Professional Body / Agency:

7. Financial support particulars:

   i.   Registration Charges: 3000|-
   ii. Travelling Allowances:
   iii. Membership Fee :
   iv. Others (if any) :

Date: 03|04|2023

Signature of the Staff Member

1. Recommendations of the HOD:
2. Recommendations of the Principal:
3. Recommendations of the IQAC:

*Sanctioned / Not Sanctioned

Account Department
Accountant: B. Nlsl
Date: 2|4|23

VOUCHER

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ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

No.

Date 8/4/2027

Name of A/c ....

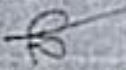Paid to T. Venkata Milarshan Cash/Cheque cash

the Sum of Rupees Three thousand rupees only

Towards Microsoft certified Azure Administrator

Associate

Prepared by

Approved by

Audited by

₹ 3,000/-

Receiver Signature

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Microsoft

ASSOCIATE

Thati Venkata M Lakshmi

(Legal name: THATI VENKATA M LAKSHMI)

has successfully achieved the certification

Microsoft Certified: Azure Administrator Associate

Date of achievement: March 29, 2023

Valid until: March 30, 2024

Certification Number: I678-8486

Satya N.

Satya Narayana Nadella

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. __S. Nageswara Rao__

2. Designation : __Asst. Professor__

3. Department : __Electrical and Electronics Engineering__

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: __Microsoft Certified Azure Developer Associate.__

5. Date & Duration of the Program: __28|03|2023__

6. Associating Professional Body / Agency:

7. Financial support particulars:

    i.   Registration Charges: __3000|-__
    ii. Travelling Allowances:
    iii. Membership Fee   :
    iv. Others (if any)   :

Date: __03|04|2023__

Signature of the Staff Member

1. Recommendations of the HOD:
2. Recommendations of the Principal:
3. Recommendations of the IQAC:

*Sanctioned / Not Sanctioned

Account Department
Accountant: S.
Date: 5|4|23

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Name of A/c. ....

Paid to S. NAGESWARA RAO cash/Cheque CASH ....

the Sum of Rupees Three thousand rupees only ....

Towards Certification (Microsoft certified : Azure ....

Developer Associate)

Prepared by   Approved by   Audited by

₹ 3,000/-   Receiver Signature

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ENIKEPADU, VIJAYAWADA-521 108.

Microsoft

ASSOCIATE

S Nageswara Rao

(Legal name: Nageswara Rao Sikha)

has successfully achieved the certification

Microsoft Certified: Azure Developer Associate

Date of achievement: March 28, 2023

Valid until: March 29, 2024

Certification Number: I676-4327

Satya N.

Satya Narayana Nadella

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. T. Venkata M. Lakshmi

2. Designation : Asst. Professor

3. Department : Electrical and Electronics Engineering

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: --

   Microsoft Certified Azure Developer Associate

5. Date & Duration of the Program: 28/03/2023

6. Associating Professional Body / Agency:

7. Financial support particulars:

   i.   Registration Charges: 3000/-
   ii.   Travelling Allowances:
   iii. Membership Fee   :
   iv.   Others (if any)   :

Date: 03/04/2023

Signature of the Staff Member

1. Recommendations of the HOD:
2. Recommendations of the Principal:
3. Recommendations of the IQAC:

*Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 3/4/23

VOUCHER

No.   Date 8/4/2002

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Name of A/c..

Paid to T. VENKATA N LAKSHMI Cash/Cheque........Cash.........

the Sum of Rupees Three thousend rupees only..........

Towards.....Certification (Microsoft certified Azure.............

.....Developer Associate)..

Prepared by   Approved by   Audited by

₹ 3,000/-

Receiver Signature

Microsoft

ASSOCIATE

Thati Venkata M Lakshmi

(Legal name: THATI VENKATA M LAKSHMI)

has successfully achieved the certification

Microsoft Certified: Azure Developer Associate

Date of achievement: March 28, 2023

Valid until: March 29, 2024

Certification Number: I676-5449

Satya Narayana Nadella

PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA-521 108.

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Accredited with NAAC 'A' grade

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. ___Ch. Pavani___

2. Designation : ___Assistant Professor___

3. Department : ___Computer Science & Engineering___

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: --

___Ethical Hacking___

5. Date & Duration of the Program: 27/02/23 to 03/3/23

6. Associating Professional Body / Agency: KITS, Blackbuck Engineers

7. Financial support particulars:

    i. Registration Charges: 500/-
    ii. Travelling Allowances:
    iii. Membership Fee :
    iv. Others (if any) :

Date: 11/2/23

Signature of the Staff Member

1. Recommendations of the HOD:
2. Recommendations of the Principal:
3. Recommendations of the IQAC:

*Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 11/2/23

No.   <u>VOUCHER</u>   Date 4/3/23

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Name of A/c .... Ch· Pavani

Paid to .... ch· Pavani .... Cash/Cheque 500

the Sum of Rupees .... Five hundred rupees Only

Towards .... Ethical Hacking

G.Hemradora
Prepared by

Radhu
Approved by

Audited by

Received Signature

₹ 500 /-

PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA-521 108.

BLACKBUCK ENGINEERS

KiTS

Certificate of Completion

This is to certify that Mr./Ms./Dr./Prof. **CHAKKA PAVANI**

from **SRKIT** has

successfully completed Five days faculty development Program on **"Ethical Hacking"** Organized by the Blackbucks and KKR & KSR Institute of Technology from **27th February to 3rd March 2023**

ANURADHA DOTA
CHIEF EXECUTIVE OFFICER
BLACKBUCK ENGINEERS PVT LTD

DR. P. BABU, PRINCIPAL,
KKR & KSR INSTITUTE OF TECHNOLOGY AND
SCIENCES, GUNTUR

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Enikepadu, Vijayawada 521108
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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. A. Radhika

2. Designation : Associate Professor

3. Department : CSE

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: ---
   Class wised Facial attendance System

5. Date & Duration of the Program: March 2023

6. Associating Professional Body / Agency: - IJRTI

7. Financial support particulars:

   i.   Registration Charges: 1500/-
   ii. Travelling Allowances:
   iii. Membership Fee   :
   iv. Others (if any)   :

Date: 16/2/23   Signature of the Staff Member

1. Recommendations of the HOD: B. Sravanti
2. Recommendations of the Principal:
3. Recommendations of the IQAC: ---------------------   *Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 16/2/23

SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c. Dr. A. Radhika

Paid to Dr. A. Radhika .... Cash/Cheque 1500

the Sum of Rupees. One thousand Five hundred rupees Only

Towards. Class wised Facial attendance System

G. HemasudhaPai
Prepared by

Radhika
Approved by

Audited by

Radhika
Receiver Signature

₹ 1500

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ENIKEPADU, VIJAYAWADA-521 108.

CLASS WISED FACIAL ATTENDANCE SYSTEM

1. DR. A.RADHIKA.

ASSOCIATE PROFESSOR, DEPARTMENT OF CSE, SRK INSTITUTE OF TECHNOLOGY VIJAYAWADA , A.P. , INDIA.

G. CHANDRIKARANI, Y. MOHAN BALAJ, I. AKHIL, D. TULASI PRIYA

Students, Dept of Computer Science and Engineering,
S.R.K Institute of Technology, Vijayawada, INDIA

Abstract -One of the foremost reminiscences everyone has about college is the morning roll call that the lecturers would in person call upon our names, and we tend to reply in affirmation to prove our attendance. It is a long and tedious routine in educational institutions. Attendance being a very important side of administration might usually become a time constraint, repetitive job, loaning itself to inaccuracies. Managing student's attendance at lecture periods has become a tough challenge. The ability to work out the attendance proportion becomes a significant task as manual computation produces errors, and wastes a great deal of our time.

The basis of developing an automatic attendance management system is to computerize the standard method of taking attendance. The proposed system strives to outgrow the constraints of the existing systems and provides features such as detection of faces, extraction of features, detection of extracted features and analysis of student's attendance.

Keywords: Student dataset, Face recognition, Detection

I. INTRODUCTION

The attendance management system has become an important factor in the education field. This system should help the professors and lecturers in marking the attendance by reducing their effort and the time consumption. The study findings enable the definition of the project problem statement, its objectives, scope, and advantages of the Face Recognition Attendance Management System.

At present attendance marking involves manual attendance on thesis sheet by professors and teachers but it is very time-consuming process and chances of proxy is also one problem that arises in such type of attendance marking. Also, there are attendance marking system such as RFID (Radio Frequency Identification), Biometrics etc. but these systems are currently not so much popular in schools and classrooms for students. So, why not shift to an automated attendance system which works on face recognition technique? Be it a class room or entry gates it will mark the attendance of the students, professors, employees, etc.

The main purpose of this project was the slow and inefficient traditional manual attendance system. These made us to think why not make it automated fast and much efficient. Also, such face detection techniques are in use by department like crime investigation where they use CCTV footages and detect the faces from the crime scene and compare those with criminal database to recognize them.

II. LITERATURE SURVEY

Research involves analysing the solutions proposed by others and find out the shortcomings of the proposed systems to put forward a better solution to the problem. To overcome the problems in marking the attendance, the approach used was based on face recognition where the main task is to match the recently taken images with those available in the database.

Dipti Kumbhar, presented the solution to this in [1], where databases are available. dataset of students which involves their name, roll number, department, and images of student in different poses and variations pictures and the other is a database for attendance. Using real time computer vision algorithms in automatic attendance management systems This paper introduces a new approach in automatic attendance management systems, extended with computer vision algorithms. The Proposed system uses real time face detection algorithms which automatically detects and registers students attending on a lecture. [2] was proposed by CH. Vinod Kumar , DR. K. Raja Kumar. Iintroduced a system for student attendance in Classes and any Lecture hall. proposed system we will detect and recognize the faces by using Eigen object detector algorithm. This can be done with the help of OpenCV with haarcascades which are present in the OpenCV inbuilt. The images which are taken from the camera are detected with haarcascade frontal faces and eyes then trained with Eigen algorithm, the trained faces are stored in a database first and compared to the trained images (the trained images are initially present in the database means the related persons to the particular college or organization) after comparing it will make attendance to the recognized persons.[3],was Face Recognition based Attendance Management System using Machine Learning Anushka Waingankar , the attendance is recorded by using a camera that will stream video of students, detect the faces in the image and compare the detected faces with the student database and mark the attendance. The attendance gets marked in a spreadsheet. 1.Finds face in an image. 2. Analyses facial features. 3. Compares against known faces and makes a prediction. [4], Was S. Dev and T. Patnaik, Attendance system using face recognition is a procedure of recognizing students by using face biostatistics based on the high-definition monitoring and other computer technologies. The development of this system is aimed to accomplish digitization of the traditional system of taking attendance by calling names and maintaining pen-paper records. Present strategies for taking attendance are tedious and time consuming. Attendance records can be easily

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. ___D. Anusha___

2. Designation : ___Associate Professor___

3. Department : ___CSE___

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: ___Cyber attack Detection in n/w using Machine learning Algorithms___

5. Date & Duration of the Program: ___March 2023___

6. Associating Professional Body / Agency: ___Dogo Rangsang Research (UGC)___

7. Financial support particulars:

   i.   Registration Charges: 1500/-
   ii.   Travelling Allowances:
   iii.   Membership Fee   :
   iv.   Others (if any)   :

Date: 2|1|2023

Signature of the Staff Member

1. Recommendations of the HOD: B. _____
2. Recommendations of the Principal: _____
3. Recommendations of the IQAC: _____

*Sanctioned / Not Sanctioned

Account Department
Accountant: _____
Date: 2|1|23

VOUCHER

No.

Date 20|3|23

SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c Dr. D. Anusha

Paid to Dr. D. Anusha Cash/Cheque 1500

the Sum of Rupees One thousand five hundred only

Towards Cyber attack detection in n/w using ML Algorithms

G HemosudhaRau
Prepared by

Radhu
Approved by

B
Audited by

₹ 1500/-

Receiver Signature

CYBER ATTACK DETECTION IN NETWORK USING MACHINE LEARNING ALGORITHMS

Dr.D.ANUSHA, Associate Professor, Department of CSE, SRK Institute of Technology, Vijayawada, A.P., India.

UNDRAJAVARAPU.SATHVIKA, RAVURI.SRUJAN SAI, RAMISETTY.TEJA SMITHA, GUDIMETLA.PAVAN

Department of CSE, SRK Institute of Technology, Vijayawada, A.P., India.

ABSTRACT: The use of new innovations give incredible advantages to people, organizations, and governments, be that as it may, messes some up against them. For instance, the protection of significant data, security of put away information stages, accessibility of information and so forth. Contingent upon these issues, digital fear based oppression is one of the most significant issues in this day and age. Digital fear, which made a great deal of issues people and establishments, has arrived at a level that could undermine open and nation security by different gatherings, for example, criminal association, proficient people and digital activists. Along these lines, Intrusion Detection Systems (IDS) has been created to maintain a strategic distance from digital assaults.Right now, learning the bolster support vector machine (SVM) calculations were utilized to recognize port sweep endeavors dependent on the new CICIDS2017 dataset with 97.80%, 69.79% precision rates were accomplished individually.

INTRODUCTION

However, our experience from following up on unsolicited remote portscans we detect in practice is that almost all of them turn out to have come from compromised hosts and thus are very likely to be hostile. So we think it reasonable to consider a portscan as at least potentially hostile, and to report it to the administrators of the remote network from whence it came However, this paper is focussed on the technical questions of how to detect portscans, which are independent of what significance one imbues them with, or how one chooses to respond to them. Also, we are focussed here on the problem of detecting a portscan via a network intrusion detection system (NIDS). We try to take into account some of the more obvious ways an attacker could use to avoid detection, but to remain with an approach that is practical to employ on busy networks. In the remainder of this section, we first define portscanning, give a variety of examples at some length, and discuss ways attackers can try to be stealthy. In the next section, we discuss a variety of prior work on portscan detection. Then we

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. _Dr. G.D.k. kishore_

2. Designation : _Associate Professor_

3. Department : _IT_

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: --

Applications of computer Vision using deep Learning

5. Date & Duration of the Program: _20-25 February 2023_

6. Associating Professional Body / Agency: _SGEC_

7. Financial support particulars:

    i.   Registration Charges:

    ii.   Travelling Allowances:

    iii.   Membership Fee   :

    iv.   Others (if any)   :   500

Date: 28/2/2a   Signature of the Staff Member

1. Recommendations of the HOD: ---------
2. Recommendations of the Principal: ---------
3. Recommendations of the IQAC: ---------   *Sanctioned / Not Sanctioned

Account Department
Accountant: B. rand
Date: 28/2/2a

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VOUCHER

No.   Date 08/0/2023

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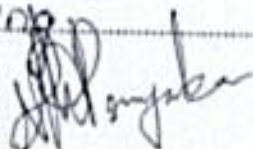
Name of A/c ....

Paid to.... Dr. G.D.K.Kishore .... Cash/Cheque 500/-

the Sum of Rupees.... five Hundred Rupees only/-

Towards Applications of computer vision using deep learning

Prepared by ....   Approved by ....   Audited by

₹ 500/-   Receiver Signature

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ENIKEPADU, VIJAYAWADA-521 108.

SESHADRIRAO GUDLAVALLERU ENGINEERING COLLEGE

(An Autonomous Institute with Permanent Affiliation to JNTU, Kakinada)

SeshadriRao Knowledge Village::Gudlavalleru, Krishna District, AP:521356

CERTIFICATE OF PARTICIPATION

This is to certify that

Dr. Damodara krishna kishore Galla, Associate Professor

from

SRK Institute of Technology

has participated in One Week Faculty Development Program on *"Applications of Computer Vision using Deep Learning"* conducted by the department of Electronics and Communication Engineering, SeshadriRao Gudlavalleru Engineering College during 20 - 25 February 2023.

Dr. K. Naga Prakash
Coordinator ,Professor

Dr. Y. Ramakrishna
Professor and HoD

Dr. G. V. S. N. R. V. Prasad
Principal

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. ..... G. Sri Lakshmi ✓

2. Designation : ..... Assistant Professor

3. Department : ..... IT

4. Conference / Publication / Membership Fee / Workshop / FDP ✓ / Seminar / Training / Industrial Visit / Tours With details: -----

   " Medical Applications using Machine & Deep learning Techniques".

5. Date & Duration of the Program: 2nd - 11th January 2023

6. Associating Professional Body / Agency: NITW

7. Financial support particulars:

   i.   Registration Charges:
   ii. Travelling Allowances:
   iii. Membership Fee   :
   iv. Others (if any)   :   500

Date: 14|1|23   Signature of the Staff Member

1. Recommendations of the HOD: .....
2. Recommendations of the Principal: .....
3. Recommendations of the IQAC: .....   *Sanctioned / Not Sanctioned

Account Department
Accountant: E. ____.
Date: 14|1|23

SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c ....

Paid to G. Srilakshmi .... Cash/Cheque 500/-

the Sum of Rupees..... five ...... Hundred ..... Rupees only/-

Towards Medical Applications using machine & Deep

learning Techniques"

Prepared by   Approved by   Audited by

₹ 500/-   Receiver Signature

PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA-521 108

ELECTRONICS & ICT ACADEMY

NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL, (T.S.), INDIA

and

Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering & Technology,
Vijayawada, Andhra Pradesh

Participation Certificate

This is to certify that **GANTA SRI LAKSHMI, Assistant Professor**

from **SRK INSTITUTE OF TECHNOLOGY**

has participated in an Online Faculty Development Programme on "MEDICAL APPLICATIONS USING MACHINE &

DEEP LEARNING TECHNIQUES " sponsored by Ministry of Electronics and Information Technology (MeitY) GoI

organised by E&ICT Academy, NIT Warangal and PSCMR College of Engineering & Technology Vijayawada,

Andhra Pradesh during 2nd - 11th January 2023

She / He has successfully completed all the requirements for the completion of the programme.

Dr. M.Srinivas	N.V.Maha Lakshmi	Dr. J.Lakshmi Narayana	Prof. R.B.V. Subramaanyam	Prof. N.V. Ramana Rao
Coordinator	Coordinator	Principal	Chief Investigator	Director
NIT Warangal	PSCMR Vijayawada A.P	PSCMR Vijayawada	NIT Warangal	NIT Warangal

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Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada
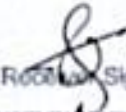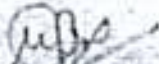(ISO 9001:2015 Certified Institution)
Accredited with NAAC 'A' grade

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. _A. Stanly Kumar_

2. Designation : _Associate profesor_

3. Department : _ME_

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: _____

    Medical Applications Using Machine & Deep learning Techniques

5. Date & Duration of the Program: 2/1/23 – 11/1/23

6. Associating Professional Body / Agency: NITW

7. Financial support particulars:

    i. Registration Charges: 500/–
    ii. Travelling Allowances:
    iii. Membership Fee :
    iv. Others (if any) :

Date: 12/1/23   Signature of the Staff Member

1. Recommendations of the HOD: PO-Suf
2. Recommendations of the Principal:
3. Recommendations of the IQAC: *Sanctioned / Not Sanctioned

Account Department
Accountant: B. Neel
Date: 12/1/23

PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA-521 108.

VOUCHER

No.

Date 12/1/23

SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c......Faculty Development program......

Paid to...Dr. A. Stanly Kumar...Cash/Cheque......Cash......

the Sum of Rupees......Five hundred Rupees only......

Towards......Fdp......

Prepared by

Approved by

Audited by

Receiver Signature

₹ 500/-

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ENIKEPADU, VIJAYAWADA-521 108.

ELECTRONICS & ICT ACADEMY

NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL, (T.S.), INDIA

and

Potti Sriramulu Chalavadi Mallikarjuna Rao College of Engineering & Technology, Vijayawada, Andhra Pradesh

Participation Certificate
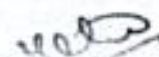
Dr A Stanly Kumar, ASSOCIATE PROFESSOR

This is to certify that...

from..... **SRK INSTITUTE OF TECHNOLOGY** ....
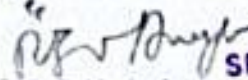
has participated in an Online Faculty Development Programme on "MEDICAL APPLICATIONS USING MACHINE &

DEEP LEARNING TECHNIQUES" sponsored by Ministry of Electronics and Information Technology (MeitY) GoI

organised by E&ICT Academy, NIT Warangal and PSCMR College of Engineering & Technology Vijayawada,

Andhra Pradesh during 2nd - 11th January 2023

She / He has successfully completed all the requirements for the completion of the programme.

Dr. M.Srinivas	N.V.Maha Lakshmi	Dr. J.Lakshmi Narayana	Prof. P.D.V. Subba	SRK INSTITUTE OF TECHNOLOGY
Coordinator	Coordinator	Principal	Chief Investigator	ENIKEPADU, VIJAYAWADA-521 108.
NIT Warangal	PSCMR Vijayawada A.P	PSCMR Vijayawada A.P	E&ICT Academy, NIT Warangal	Director NIT Warangal

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Accredited with NAAC 'A' grade

Financial Support Request Letter

1. Name of the Staff Member   : Dr./Mr./Ms. _____ A. Akila.

2. Designation   : Asst. Professor.

3. Department   : IT

4. Conference / Publication / Membership Fee / Workshop / FDP ✓ / Seminar / Training / Industrial Visit / Tours With details: ---

   " Health care & Bio-Medical Data Analysis Using AI

5. Date & Duration of the Program: 02-01-23 to 06-01-2025

6. Associating Professional Body / Agency: VITW

7. Financial support particulars:

   i.   Registration Charges:
   ii.   Travelling Allowances:
   iii. Membership Fee   :
   iv.   Others (if any)   :   500

Date: 11/1/23

Signature of the Staff Member

1. Recommendations of the HOD: ----------
2. Recommendations of the Principal: ----------
3. Recommendations of the IQAC: ----------

*Sanctioned / Not Sanctioned

Account Department
Accountant: B. Naul
Date: 11/1/23

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No. _____ <u>VOUCHER</u>   Date 11 | 01 | 2023

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ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c ....

Paid to ...... A. Akhila .... Cash/Cheque ...... 500/- ....

the Sum of Rupees Five Hundred Rupees only/-...................

Towards " Health care & BIO - Medical Data

.... Analysis using AI

Prepared by ....   Approved by   Audited by

₹ 500/-   Receiver Signature

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Enikepadu,VIJAYAWADA-521 108. (A.P.) Phone: 0866-2844444, e-mail : vijayatechfw@gmail.com web : www.vitw.in

CERTIFICATE

OF PARTICIPATION

This is to certify that Mr./Ms/Mrs/Dr. **A·AKILA**

from **SRK INSTITUTE OF TECHNOLOGY**

has actively participated in the one week Faculty Development Programme on "HEALTH CARE & BIO - MEDICAL DATA ANALYSIS USING AI" organized by the department of Artificial Intelligence and Machine Learning held from 02-01-2023 to 06-01-2023.

Mr. P. Jashuva
Coordinator
SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA-521 108

Dr. K. Murali
HoD, Dept. of AIML

Dr. G. Chenchamma
Principal

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Accredited with NAAC 'A' grade

Financial Support Request Letter

1. Name of the Staff Member   : Dr./Mr./Ms. ✓ ...S.Moshedayan...

2. Designation   : ...Asst. Professor...

3. Department   : ...IT...

4. Conference / Publication / Membership Fee / Workshop / FDP ✓ / Seminar / Training / Industrial Visit / Tours With details: ---

   ...Health Care & Bio-Medical Data Analysis Using AI...

5. Date & Duration of the Program: 02-01-2023 - 06-01-2023

6. Associating Professional Body / Agency: VITW

7. Financial support particulars:

   i.   Registration Charges: 500/-
   ii.   Travelling Allowances:
   iii.   Membership Fee   :
   iv.   Others (if any)   :

Date: 10/1/23

Signature of the Staff Member

1. Recommendations of the HOD: ...
2. Recommendations of the Principal: ...
3. Recommendations of the IQAC: ...

*Sanctioned / Not Sanctioned

Account Department
Accountant: B. Paul
Date: 10/1/23

VOUCHER

No.   Date 10/1/2023

SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c ....

Paid to .... S. Moshedayan .... Cash/Cheque .... 500/-.....

the Sum of Rupees .... five Hundred Rupees /-....................

Towards .... Health Care & Bio-Medical Data Analysis....

.... using AI (FDP)..

Prepared by   Approved by   Audited by

₹ 500/-   Receiver Signature

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Enikepadu,VIJAYAWADA-521 108. (A.P.) Phone: 0866-2844444, e-mail : vijayatechfw@gmail.com web : www.vitw.in

CERTIFICATE

OF PARTICIPATION

This is to certify that Mr./Ms/Mrs/Dr. __S. MOSHE DAYAN__

from __SRK INSTITUTE OF TECHNOLOGY__

has actively participated in the one week Faculty Development Programme on "HEALTH CARE & BIO - MEDICAL DATA ANALYSIS USING AI" organized by the department of Artificial Intelligence and Machine Learning held from 02-01-2023 to 06-01-2023.

Mr. P. Jashuva
Coordinator

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ENIKEPADU, VIJAYAWADA-521 108.

Dr. K. Murali
HoD, Dept. of AIML

Dr. G. Chenchamma
Principal

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Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada
(ISO 9001:2015 Certified Institution)
Accredited with NAAC 'A' grade

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. ......Shaik Bhasha..............

2. Designation : ....Ast. Professor.........................

3. Department : ....IT..................................

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: --

   Health Care & BIO - medical data Analysis Using AI

5. Date & Duration of the Program: 02-01-23 to 06-01-23.

6. Associating Professional Body / Agency: VITW

7. Financial support particulars:

   i. Registration Charges:
   ii. Travelling Allowances:
   iii. Membership Fee :
   iv. Others (if any) : 500

Date: 11|1|22

Signature of the Staff Member

1. Recommendations of the HOD: ----------
2. Recommendations of the Principal: ----------
3. Recommendations of the IQAC: ----------

*Sanctioned / Not Sanctioned

Account Department
Accountant: B New
Date: 11|1|23

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ENIKEPADU, VIJAYAWADA-521 108.

No.   <u>VOUCHER</u>   Date 11 | 01 | 2023

SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c...

Paid to......Shaik....Bhasha............Cash/Cheque........500/-..........

the Sum of Rupees....five....Hundred....Rupees....only/-.................

Towards..Health..Care..&..BIO-medical..data..Analysis......

......using....AI..

Prepared by ....   Approved by   Audited by

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Enikepadu,VIJAYAWADA-521 108. (A.P.) Phone: 0866-2844444, e-mail : vijayatechfw@gmail.com web : www.vitw.in

VIJAYAWADA

CERTIFICATE

OF PARTICIPATION

This is to certify that Mr./Ms/Mrs/Dr. __SHAIK BHASKA__

from _____SRK INSTITUTE OF TECHNOLOGY_____

has actively participated in the one week Faculty Development Programme on "HEALTH CARE & BIO - MEDICAL DATA ANALYSIS USING AI" organized by the department of Artificial Intelligence and Machine Learning held from 02-01-2023 to 06-01-2023.

Mr. P. Jashuva
Coordinator

Dr. K. Murali
HoD, Dept. of AIML

PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA-521 108.

Dr. G. Chenchamma
Principal

SRK INSTITUTE OF TECHNOLOGY
Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada
(ISO 9001:2015 Certified Institution)
Accredited with NAAC 'A' grade

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. __B. Asha latha__

2. Designation : __Associate Professor__

3. Department : __CSE__

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: ----

   __Schemes To Detect Data Poison Under Distributed Environment__

5. Date & Duration of the Program: __1/01/23__

6. Associating Professional Body / Agency: __UGC__

7. Financial support particulars:

   i.   Registration Charges: __1500/-__
   ii. Travelling Allowances:
   iii. Membership Fee :
   iv. Others (if any) :

Date: 1/12/22

Signature of the Staff Member

1. Recommendations of the HOD:
2. Recommendations of the Principal:
3. Recommendations of the IQAC:

*Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 1/12/22

PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA-521 109.

SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c...... Dr. B. Ashalatha

Paid to. Dr. B. Ashalatha .... Cash/Cheque 1500

the Sum of Rupees...... One Thousand five hundred rupees Only

Towards Schemes to Detect Data Poison Under Distributed Environment

G. Hemasudhara   Radhika   B
Prepared by   Approved by   Audited by

₹ 1500/—   B.
                                       Receiver Signature

PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA-521 108.

SCHEMES TO DETECT DATA POISON UNDER DISTRIBUTED ENVIRONMENT

Dr. BANDI ASHA LATHA Professor, Department of CSE, SRK Institute of Technology, Vijayawada, A.P., India.

GAMPA RADHA KRISHNA, CHENNAMSETTY HEMANTH SAI, HUPATHI RAMYA RAJU, REPALLE BHARATH CHAITANYA Student, Department of CSE, SRK Institute of Technology, Vijayawada, A.P., India.

ABSTRACT: IN THIS PAPER we proposed cross-learning mechanism would generate training loops, based on which a mathematical model is established to find the optimal number of training loops. Then, for semi-DML, we present an improved data poison detection scheme to provide better learning protection with the aid of the central resource. To efficiently utilize the system resources, an optimal resource allocation approach is developed. Simulation results show that the proposed scheme can significantly improve the accuracy of the final model by up to 20% for support vector machine and 60% for logistic regression in the basic-DML scenario. Moreover, in the semi-DML scenario, the improved data poison detection scheme with optimal resource allocation can decrease the wasted resources for 20-100%.

INTRODUCTION

Distributed machine learning (DML) has been widely used in distributed systems , where no single node can get the intelligent decision from a massive dataset within an acceptable time. In a typical DML system , a central server has a tremendous amount of data at its disposal. It divides the dataset into different parts and disseminates them to distributed workers who perform the training tasks and return their results to the center. Finally, the center integrates these results and outputs the eventual model.Unfortunately, with the number of distributed workers increasing, it is hard to guarantee the security of each worker. This lack of security will increase the danger that attackers poison the dataset and manipulate the training result. Poisoning attack is a typical way to tamper the training data in machine learning. Especially in scenarios that newly generated datasets should be periodically sent to the distributed workers for updating the decision model, the attacker will have more chances to poison the datasets, leading to a more severe threat in DML.

UGC CARE Group-1, Sr. No.-155 (Sciences)

SRK INSTITUTE OF TECHNOLOGY
Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada
(ISO 9001:2015 Certified Institution)
Accredited with NAAC 'A' grade

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. _P. Bhagya Lakshmi_

2. Designation : _Assistant professs_

3. Department : _ME_

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: _Innovations in Mechanical Engineering_

5. Date & Duration of the Program: _26/12/22 – 30/12/22_

6. Associating Professional Body / Agency: _VVIT_

7. Financial support particulars:

   i.   Registration Charges: _500/-_
   ii.   Travelling Allowances:
   iii. Membership Fee   :
   iv.   Others (if any)   :

Date: _22/12/22_   Signature of the Staff Member

1. Recommendations of the HOD: _PQ.Sub_
2. Recommendations of the Principal:
3. Recommendations of the IQAC: *Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: _22/12/22_

No.   **VOUCHER**   Date 22-12-22

SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c   Faculty Development program

Paid to Ms. P. Bhagya Lakshmi Cash/Cheque   Cash

the Sum of Rupees   Five hundred Rupees only

Towards   FDP

Prepared by   Approved by   Audited by

₹   500/–   Receiver Signature

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IME/VVIT/028

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NAAC Accredited with 'A' Grade, ISO 9001:2008 Certified
Nambur (V), Pedakakani (M), Guntur (Dt.), Andhra Pradesh – 522 508, www.vvitguntur.com

Certificate of Participation

This is to certify that

P. Bhagya Lakshmi

of

SRK Institute of technology

has participated in a one week faculty development program on "Innovations in Mechanical Engineering" during 26-12-2022 to 30-12-2022, through online mode, organized by the Department of Mechanical Engineering, Vasireddy Venkatadri Institute of Technology, Nambur.

PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY Srinivasa Rao
ENIKEPADU, VIJAYAWADA-521 108
Coordinator

Dr. K. Satyanarayana
Convener & HoD-ME

Dr. Y. Mallikarjuna Reddy
Principal

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Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada
(ISO 9001:2015 Certified Institution)
Accredited with NAAC 'A' grade

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. ...... R. Tarun Kumar

2. Designation : ...... Assistant professor

3. Department : ...... ME

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: ......

Innovations & Advancements in Mechanical Engineering

5. Date & Duration of the Program: 26/12/22 to 30/12/22

6. Associating Professional Body / Agency: VVIT

7. Financial support particulars:

     i. Registration Charges: 500/-
     ii. Travelling Allowances:
     iii. Membership Fee :
     iv. Others (if any) :

Date: 21/12/22   Signature of the Staff Member

1. Recommendations of the HOD: P.O.Sub
2. Recommendations of the Principal: ......
3. Recommendations of the IQAC: ......   *Sanctioned / Not Sanctioned

Account Department
Accountant: B
Date: 21/12/22

VOUCHER

No.

Date 28/11/22

SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c........ Faculty development program

Paid to. Mr. R. Kanun Kumar Cash/Cheque...... Cash

the Sum of Rupees........ Five hundred Rupees only

Towards........ FDP

Prepared by

Approved by

Audited by

Receiver Signature

₹ 500/-

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ENIKEPADU, VIJAYAWADA-521 108.

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NAAC Accredited with 'A' Grade, ISO 9001:2008 Certified
Nambur (V), Pedakakani (M), Guntur (Dt.), Andhra Pradesh – 522 508, www.vvitguntur.com

Certificate of Participation

This is to certify that

RAMISETTI KARUN KUMAR

of

SRK INSTITUTE OF TECHNOLOGY

has participated in a one week faculty development program on "Innovations in Mechanical Engineering" during 26-12-2022 to 30-12-2022, through online mode, organized by the Department of Mechanical Engineering, Vasireddy Venkatadri Institute of Technology, Nambur.

Dr. T. Srinivasa Rao
PRINCIPAL *Coordinator*
SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA-521 108.

Dr. K. Satyanarayana
Convener & HoD-ME

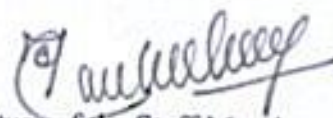**Dr. Y. Mallikarjuna Reddy**
Principal

SRK INSTITUTE OF TECHNOLOGY
Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada
(ISO 9001:2015 Certified Institution)
Accredited with NAAC 'A' grade

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. M. Chambaram Naidu

2. Designation : Associate Professor

3. Department : CSE

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: A new multimedia web Data Mining Approach based on Equivalence class Evolution Pipelined to Feature maps onto Planar Projection

5. Date & Duration of the Program: 25|12|2022

6. Associating Professional Body / Agency:

7. Financial support particulars:

   i. Registration Charges: 1500/-
   ii. Travelling Allowances:
   iii. Membership Fee :
   iv. Others (if any) :

Date: 20|9|2022

Signature of the Staff Member

1. Recommendations of the HOD: B. Adhua
2. Recommendations of the Principal:
3. Recommendations of the IQAC:

*Sanctioned / Not Sanctioned

Account Department
Accountant: B. ndoul
Date: 20/9/2022

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SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c Dr. M. Ekambaram Naidu

Paid to Dr. M. Ekambaram Naidu Cash/Cheque 1500/-

the Sum of Rupees One thousand Five hundred rupees Only

Towards Approach based on Equivalence class Evaluation Pipelined
to feature map on to Planar projection

G. Hanagodhari
Prepared by   Approved by   Audited by

₹ 1500/-

Receiver Signature

A New Multimedia Web-Data Mining Approach based on Equivalence Class Evaluation Pipelined to Feature Maps onto Planar Projection

M. Ravi[1,3], M. Ekambaram Naidu[2] and G. Narsimha[3]
[1]CMR Institute of Technology, Hyderabad-501401, Telangana, India
[2]SRK Institute of Technology, Vijayawada-521108, India
[3]Jawaharlal Nehru Tech University, Hyderabad-500085, India
E-mail: ravimogili@gmail.com, menaidu2005@yahoo.co.in, narsimha06@gmail.com

Multimedia information are semi-organized or unstructured information elements whose essential substance is separately or by and large utilized for correspondence. Sight and sound information mining recognizes, arranges, and recovers important highlights from an assortment of media to recognize enlightening examples furthermore, connections for information acquisition. Computer Vision (CV)-based systems have been increasingly popular in recent years, owing to the growing number and complexity of datasets. In CV, finding meaningful photos in a huge dataset is a difficult task to solve. Traditional search engines retrieve photos based on text such as captions and metadata, but this strategy can result in a lot of irrelevant output, not to speak the time, effort, and money required to tag this textual data.

In this paper, we proposed a pipelined deep learning oriented methodology framework for multimedia web-data mining based on content extracted feature maps in planner projection as input. Color, texture, form, and other high-level properties of images are represented as numerical feature vectors. This technique is based on the following computer vision tasks in general i.e., Image segmentation, Image classification, Object detection etc. In order to prove the computational efficiency and to validate its statistical behaviour, we have also presented the experimental evaluation on an standard multimedia dataset. The obtained performance results are then compared with some significant existing approaches in the terms of various statistical measures/parameters.

Povzetek: Predstavljena je metoda rudarja multimedijev z globokim učenjem, ki temelji na lastnostih vsebine slik. Uporablja se za različne naloge računalniškega vida, kot so segmentacija, klasifikacija in zaznavanje objektov. Preizkušena je bila na standardnem multimedialnem naboru podatkov.

1 Introduction

Multimedia information mining involves identifying, categorizing, and retrieving relevant features from a variety of media to identify educational patterns and relationships for data acquisition. The performance of multimedia information mining is directly impacted by the level of information contained in the data, which can be recognized during the data pre-processing stage. Data pre-processing aims to reduce data dimensionality by preserving useful features, which are factors (or attributes) used as input for selection algorithms. This greatly improves runtime (training time), predictive accuracy, and result readability when working with human interpretation and knowledge. There are two key steps in data pre-processing: feature extraction (FE) and feature selection (FS). FS techniques are a subset of the broader field of FE. While FE extracts multiple features from the original data to generate a dataset, FS selects a subset of original variables to build the model. However, identifying related features provides insights into underlying phenomena. On the other hand, eliminating irrelevant variables enhances the accuracy of data classification. Multimedia web-information mining includes various applications such as face recognition, pattern recognition, text detection and recognition in images and video frames, biomedicine, emotion recognition, image retrieval and classification, and image annotation, among others.

1.1 Multimedia

Multimedia information are semi-organized or unstructured information elements whose essential substance is exclusively or all in all utilized for correspondence. The term sight and sound covers a variety of media article like a mix of text, picture, video, sound, numeric, sound, liveliness, graphical, and straight out information on a PC show terminal. In the approach of programming innovation, sight and sound is characterized as "a PC program comprised of messages, realistic, sound and pictures and animations". Text is made out of an enormous number of disorganised and nebulous characters of normal language text [22, 23]. Writings can be inserted in recordings in two structures,

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. T. Venkata Maha Lakshmi

2. Designation : Asst. Professor

3. Department : Electrical and Electronics Engineering

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: National Conference on the theme of Agni- Energy Security for Atmanirbar Bharat

5. Date & Duration of the Program: 19|12|2022

6. Associating Professional Body / Agency:

7. Financial support particulars:

   i.   Registration Charges: 1000|-
   ii.   Travelling Allowances:
   iii. Membership Fee :
   iv. Others (if any) :

Date: 20|12|2022

Mahalakmi
Signature of the Staff Member

1. Recommendations of the HOD:
2. Recommendations of the Principal:
3. Recommendations of the IQAC:

*Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 20|12|22

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No.   __VOUCHER__   Date 20/12/2022

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ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c...

Paid to T. VENKFIA MAHA LAKShmi Y Cash/Cheque ...Cash...

the Sum of Rupees ...One... thousand.. rupees. only........................

Towards. National. conference. on. the. theme. of. Agni-

Frogy. Security. for. Atmanirber. Bharat!

Prepared by   Approved by   Audited by

₹ 1,000/—

Receiver Signature
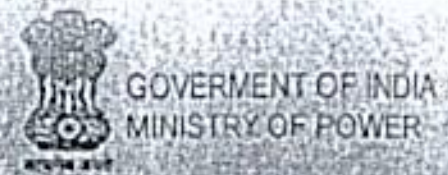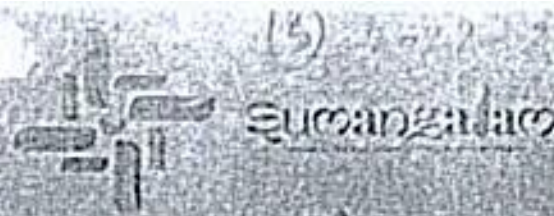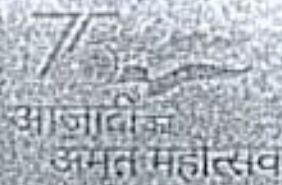
Certificate of Participation
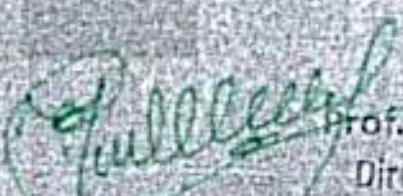
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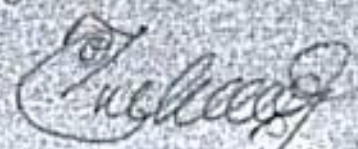
Mr./ Ms./Dr./Prof. _____ Thati Venkata M Lakshmi _____

has participated in the NATIONAL CONFERENCE organized by Vijnana Bharati, Power Foundation of India and SPA Vijayawada held on 19th December 2022 on the theme of 'Agni - Energy Security for Atmanirbar Bharat' at School of Planning and Architecture, Vijayawada.

Prof. Dr. Kailasa Rao
Coordinator

Prof. P. S. Avadhani
President, BVM

Prof. Dr. Ramesh Srikonda
Director, SPA, Vijayawada

BHARATIYA
VIJNANA
MANDAL

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. ___D. Anusha___

2. Designation : ___Associate Professor___

3. Department : ___Computer Science & Engineering___

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: --

   ___Agni - Energy Security for Atmanirbhar Bharat___

5. Date & Duration of the Program: 19|12|2022

6. Associating Professional Body / Agency: Agni

7. Financial support particulars:

   i.   Registration Charges: 2000/-
   ii.   Travelling Allowances:
   iii. Membership Fee   :
   iv.   Others (if any)   :

Date: 15|12|2022

Signature of the Staff Member

1. Recommendations of the HOD: B. Salem
2. Recommendations of the Principal:
3. Recommendations of the IQAC:

*Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 15|12|2022

No.

Date 20/12/22

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Name of A/c............Dr. D. Anusha...

Paid to....Dr. D. Anusha..............................Cash/Cheque.......2000/-........................

the Sum of Rupees.....Two Thousand rupees Only...

Towards.................Agni - Energy Security for Atmanirbar.................................
.................................Bharat...

G. Hema sudha Rai
Prepared by

R. dhuci
Approved by

Audited by

₹   2000/-

Receiver Signature

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GOVERMENT OF INDIA
MINISTRY OF POWER

agni

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Mr./ Ms./Dr./Prof. _Dr. B Anusha._

has participated in the NATIONAL CONFERENCE organized by Vijnana Bharati, Power Foundation of India and SPA Vijayawada held on 19th December 2022 on the theme of 'Agni - Energy Security for Atmanirbar Bharat' at School of Planning and Architecture, Vijayawada.

Prof. Dr. Kailasa Rao
Coordinator

Prof. P. S. Avadhani
President, BVM

Prof. Dr. Ramesh Srikonda
Director, SPA, Vijayawada

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. K. Satyanarayana

2. Designation : Asst. Professor.

3. Department : Electrical and Electronics Engineering.

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: FDP (A two week FDP on "Applications of Power electronics in electric Vehicles"

5. Date & Duration of the Program: 13/12/2022 – 19/12/2022.

6. Associating Professional Body / Agency:

7. Financial support particulars:

   i. Registration Charges: 2000/-
   ii. Travelling Allowances:
   iii. Membership Fee :
   iv. Others (if any) :

Date: 26/12/2022

K. Satyanarayana
Signature of the Staff Member

1. Recommendations of the HOD:
2. Recommendations of the Principal:
3. Recommendations of the IQAC:

*Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 24/12/22

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Date 26/12/2022

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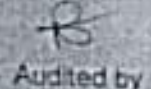
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Name of A/c ....

Paid to K. SATYANARAYANA Cash/Cheque CASH ....

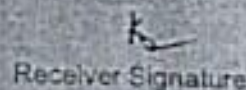the Sum of Rupees Two thousand rupees only ....

Towards FDP (A Two week FDP on "Applications of

Power Electronics in Electric Vehicles")

Prepared by   Approved by   Audited by
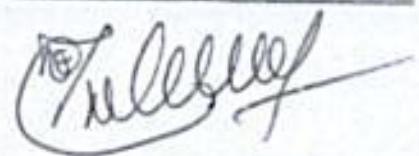
₹ 2000/-   Receiver Signature

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No: ATAL/2022/1668654603

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AICTE Training and Learning (ATAL) Academy

Certificate

This is certified that SATYANARAYANA KANULLA, Assistant Professor of SRK INSTITUTE OF TECHNOLOGY participated & completed successfully AICTE Training And Learning (ATAL) Academy Blended/Hybrid FDP on "Applications of Power Electronics In Electric Vehicles" from 2022-12-12-2022-12-17 to 2022-12-19-2022-12-23 at NRI INSTITUTE OF TECHNOLOGY.

Advisor-I, ATAL Academy
Mamta Rani Agarwal

Coordinator

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. B. Sehalatha

2. Designation : Associate Professor

3. Department : Computer Science & Engineering

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: ------------------

   Applications of AI & ML & Data Science

5. Date & Duration of the Program: 12/12/22 to 17/12/2022

6. Associating Professional Body / Agency: KITS

7. Financial support particulars:

   i.   Registration Charges: 500/-
   ii. Travelling Allowances:
   iii. Membership Fee   :
   iv. Others (if any)   :

Date: 7/12/2022

Signature of the Staff Member

1. Recommendations of the HOD:
2. Recommendations of the Principal:
3. Recommendations of the IQAC:

*Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 7/12/2022

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ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c ..... Dr. B. Ashalatha

Paid to ..... Dr. B. Ashalatha ..... Cash/Cheque 500

the Sum of Rupees ..... Five hundred rupees only

Towards ..... Applications of AI & ML & Data Science

A. Hemapradhophi
Prepared by

Radhi
Approved by

Audited by

₹ 500/-

B.
Receiver Signature

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NBA   **A NAAC**   **KiTS** [Autonomous]   **KKR & KSR INSTITUTE OF TECHNOLOGY AND SCIENCES**

DEPARTMENT OF ARTIFICIAL INTELLIGENCE

CERTIFICATE

OF PARTICIPATION

THIS CERTIFICATE IS PRESENTED TO

Mrs. Ashalatha

of SRK INSTITUTE OF TECHNOLOGYhas successfully completed a One week National Level Online S T T P on

"APPLICATIONS OF AI , ML AND DATA SCIENCE" held from 12th-17th December, 2022.

S. nagendram

Dr. S. Nagendram
Co-Ordinator

_G._

Dr. G. Murali
Program Chair, HOD-AI

signature

Dr.P.Babu
Principal

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. ...M. Suresh Babu......

2. Designation : ...Asst. professor...

3. Department : ...IT...

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: --
......IT SOFTWARE SOLUTIONS FOR BUSINESS......

5. Date & Duration of the Program: 29-11-2022 to 09-12-2022

6. Associating Professional Body / Agency: APSSDC

7. Financial support particulars:

   i. Registration Charges:
   ii. Travelling Allowances:
   iii. Membership Fee :
   iv. Others (if any) : 500

Date: 14/12/22

Signature of the Staff Member

1. Recommendations of the HOD: ------
2. Recommendations of the Principal: ------
3. Recommendations of the IQAC: ------
   •Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 14/12/22

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ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

No.

Date 14/12/2022

Name of A/c ....

Paid to M:Suresh Babu Cash/Cheque 500/-

the Sum of Rupees five Hundred Rupees only /-

Towards IT SOFTWARE solutions for Business (FDP)

Prepared by

Approved by

Audited by

Receiver Signature

₹ 500/-

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Andhra Pradesh State Skill Development Corporation (APSSDC)

(Department of Skills Development & Training, Govt. of Andhra Pradesh)

Certificate of Completion

This is to certify that

Mr./Ms./Dr. .... **M. SURESH BABU** ....

has actively participated and successfully completed APSSDC

FDP on .... **IT SOFTWARE SOLUTIONS FOR BUSINESS (ITSSB)** ....

from .... **29-11-2022** .... to .... **09-12-2022** ....

in Virtual.

SANKALP
Ministry of Skill Development
& Entrepreneurship

Skill AP
A P S S D C

India skills
ANDHRA PRADESH

Dr. D.V. Rama Koti Reddy
Executive Director,
APSSDC

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ENIKEPADU, VIJAYAWADA-521 108.

Sri S. Satyanarayana, IAS
Managing Director
APSSDC

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Financial Support Request Letter

1. Name of the Staff Member   : Dr./Mr./M̌s. T. Prasanna

2. Designation   : Assistant Professor

3. Department   : Science and Humanities

4. Conference / Publication / Membership Fee / Workshop / FDP✓ / Seminar / Training / Industrial Visit / Tours With details: --

   "Effective Pedagogy for Science" Org. by JMJ college

5. Date & Duration of the Program: 29.11.22 to 3.12.22 & 5 days

6. Associating Professional Body / Agency: JMJ college for Women, Tenali

7. Financial support particulars:

   i.   Registration Charges: 1500/-
   ii.   Travelling Allowances:
   iii. Membership Fee   :
   iv.   Others (if any)   :

                                                                 Prasanna T
Date: 24-11-2022   Signature of the Staff Member

1. Recommendations of the HOD: -------
2. Recommendations of the Principal: ------------
3. Recommendations of the IQAC: ------------   *Sanctioned / Not Sanctioned

Account Department
Accountant: అనిల్
Date: 24/11/22

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                                        SRK INSTITUTE OF TECHNOLOGY
                                        ENIKEPADU, VIJAYAWADA-521 108.

No.   <u>VOUCHER</u>   Date 24-11-2022

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ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c ....

Paid to ...... T. Prasanna .... Cash/Cheque ...... 1500/- ....

the Sum of Rupees One thousand & five hundred Rupees only

Towards .... Faculty development Programme.

Prepared by   Approved by   Audited by

₹ 1500/-   Prasanna T
                                            Receiver Signature

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Morrispet (P.O), TENALI-522202, Guntur Dt., Andhra Pradesh.
College Email: jmjtenali@gmail.com   Website: jmjcollege.ac.in   Phone: 08644-227994

CERTIFICATE

This is to certify that   **Tadepalli Prasanna**

of   **SRK Institute of Technology, Enikepadu, Vijayawada**

has Participated in **Five Day National Level Online FDP** on **Effective Pedagogy for Science**

from **29.11.2022** to **03.12.2022** jointly organized by Departments of Physics and Mathematics, JMJ College

for Women (Autonomous), Tenali.

Convener
Dr. S. Uma Maheswari
HoD, Mathematics

Organizing Secretary
Ms. C.M. Anitha
HoD, Physics

Principal
Dr. Sr. Shiny KP

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Financial Support Request Letter

1. Name of the Staff Member   : Dr./Mr./Ms. V. Prasanthi

2. Designation   : Assistant Professor

3. Department   : Science and Humanities

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: Five Day National Level Online FDP on Effective Pedagogy For Science

5. Date & Duration of the Program: 29-11-22 to 3-12-22 & Five days

6. Associating Professional Body / Agency: JMJ College for Women, Tenali

7. Financial support particulars:

    i.   Registration Charges: 1500/-
    ii.   Travelling Allowances:
    iii. Membership Fee   :
    iv.   Others (if any)   :

V. Prasanthi
Signature of the Staff Member

Date: 24-11-2022

1. Recommendations of the HOD: —
2. Recommendations of the Principal: —
3. Recommendations of the IQAC: —   *Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 24/11/22

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ENIKEPADU, VIJAYAWADA-521 108.

No.   <u>VOUCHER</u>   Date. 24-11-2021

SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c..

Paid to.... V. Prasanthi .... Cash/Cheque ...... 1500/- ....

the Sum of Rupees. One thousand and five hundered Rupees only.

Towards........ F.D.P.

Prepared by   Approved by   Audited by

                                                         V. Prasanthi
                                                      Receiver Signature

₹ 1500/-

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Affiliated to Acharya Nagarjuna University

Morrispet (P.O), TENALI-522202, Guntur Dt., Andhra Pradesh.

College Email: jmjtenali@gmail.com   Website: jmjcollege.ac.in   Phone: 08644-227994

CERTIFICATE

This is to certify that **Prasanthi Vellanki**

of **SRK Institute of Technology, Enikepadu**

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Convener
Dr. S. Uma Maheswari
HoD, Mathematics

Organizing Secretary
Ms. C.M. Anitha
HoD, Physics

Principal
Dr. Sr. Shiny KP

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. ✓ G. koteswaramma

2. Designation : Assistant Professor

3. Department : Science and Humanities

4. Conference / Publication / Membership Fee / Workshop / FDP ✓ / Seminar / Training /
   Industrial Visit / Tours With details: --

   " Effective Pedagogy for Science" Org. by JMJ college, Tenali

5. Date & Duration of the Program: 29-11-22 to 5-12-22 & 5 days

6. Associating Professional Body / Agency: JMJ college for women, Tenali

7. Financial support particulars:

   i.   Registration Charges: 1500/-
   ii.   Travelling Allowances:
   iii. Membership Fee   :
   iv.   Others (if any)   :

Date: 24-05-2023

G. koteswaramma
Signature of the Staff Member

1. Recommendations of the HOD: -----
2. Recommendations of the Principal: -----
3. Recommendations of the IQAC: -----   *Sanctioned / Not Sanctioned ✓

Account Department
Accountant:
Date: 24/5/23

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ENIKEPADU, VIJAYAWADA-521 108.

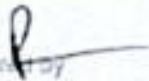**VOUCHER**

No.

Date 24-05-2023

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Name of A/c..

Paid to...G. Koteswaramma..........Cash/Cheque.....1500/-

the Sum of Rupees..One thousand & five hundered Rupees only

Towards........F.D.P

Prepared by

Approved by

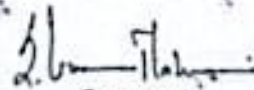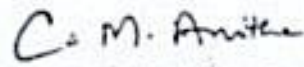Audited by

G. Koteswaramma
Receiver Signature

₹ 1500/-

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JMJ COLLEGE FOR WOMEN (AUTONOMOUS), TENALI

Affiliated to Acharya Nagarjuna University
Morrapu (P.O), TENALI-522201, Guntur Dt., Andhra Pradesh.
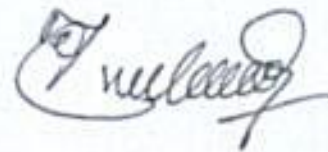College Email: jmjtenali@gmail.com   Website: jmjcollege.xr.in   Phone: 08644-227994

CERTIFICATE

This is to certify that   Koteswaramma gangireddy

of   S.R.K.institute of technology,Enikepadu,Vijayawada.

has Participated in .... on Effective Pedagogy for Science

from 29.11.2022 to 03.12.2022 jointly organized by Departments of Physics and Mathematics, JMJ College

for Women (Autonomous), Tenali.

Convener	Organizing Secretary	Principal
Dr. S. Uma Maheswari	Ms. C.M. Anitha	Dr. Sr. Shiny KP
HoD, Mathematics	HoD, Physics	

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(ISO 9001:2015 Certified Institution)
Accredited with NAAC 'A' grade

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. N. Gayatri Devi

2. Designation : Assistant Professor

3. Department : Science and Humanities

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: --

   " Effective Pedagogy for Science" Org: by JMJ College, Tenali

5. Date & Duration of the Program: 29-11-22 to 3-12-22 & 5 days

6. Associating Professional Body / Agency: JMJ College for Women, Tenali

7. Financial support particulars:

   i.   Registration Charges: 1500|-
   ii. Travelling Allowances:
   iii. Membership Fee :
   iv. Others (if any) :

Date: 24-05-2023   Signature of the Staff Member

1. Recommendations of the HOD: -------
2. Recommendations of the Principal: -------
3. Recommendations of the IQAC: -------   *Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 24/5/23

PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA-521 108.

No.

<u>VOUCHER</u>

Date 24-05-2023

SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2841839

Name of A/c ....

Paid to N.Gayatri Devi   Cash/Cheque 1500/-

the Sum of Rupees One thousand & five hundred Rupees Only

Towards F.D.P

Proposed by

Approved by

Audited by

₹ 1500/-

N.Gayth
Receiver Signature

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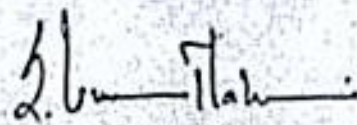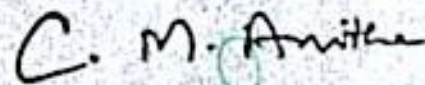College Email: jmjtenali@gmail.com   Website: jmjcollege.ac.in   Phone: 08644-227994

CERTIFICATE

This is to certify that   NUNNA GAYATRI DEVI

of   SRK Institute of Technology

has Participated in Five Day National Level Online FDP on Effective Pedagogy for Science

from 29.11.2022 to 03.12.2022 jointly organized by Departments of Physics and Mathematics, JMJ College

for Women (Autonomous), Tenali.

Convener
Dr. S. Uma Maheswari
HoD, Mathematics

Organizing Secretary
Ms. C.M. Anitha
HoD, Physics

Principal
Dr. Sr. Shiny KP

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Accredited with NAAC 'A' grade

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. ✓ S. Suman

2. Designation : Assistant Professor

3. Department : Science and Humanities

4. Conference / Publication / Membership Fee / Workshop / FDP ✓ / Seminar / Training / Industrial Visit / Tours With details: ----------------------------------

   "Effective Pedagogy for Science" Org: by JMJ College.

5. Date & Duration of the Program: 29-11-22 to 3-12-22 & 5 days

6. Associating Professional Body / Agency: JMJ college for Women, Tenali

7. Financial support particulars:

   i.   Registration Charges: 1500/-
   ii.   Travelling Allowances:
   iii. Membership Fee   :
   iv.   Others (if any)   :

   S. Suman.
Date: 24-05-2023   Signature of the Staff Member

----

1. Recommendations of the HOD: ----------
2. Recommendations of the Principal: ----------
3. Recommendations of the IQAC: ----------   *Sanctioned / Not Sanctioned

----

Account Department
Accountant:
Date: 24/5/23

PRINCIPAL
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No.   VOUCHER   Date 24-05-2023

SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c...

Paid to...... S. Suman .... Cash/Cheque...... 1500/-.............

the Sum of Rupees.. One thousand & five hundred Rupees Only

Towards...... Faculty Development Programme......................

Prepared by   Approved by   Audited by

                                                              S. Suman

₹ 1500/-   Receiver Signature

PRINCIPAL
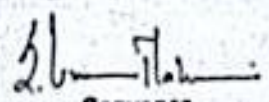SRK INSTITUTE OF TECHNOLOGY
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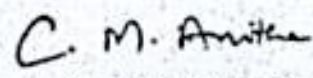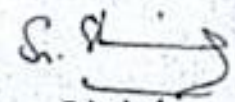# JMJ COLLEGE FOR WOMEN (AUTONOMOUS), TENALI

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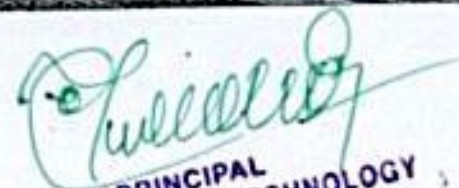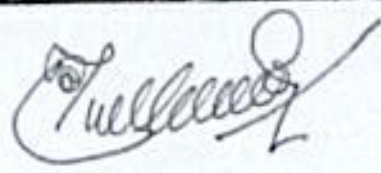
CERTIFICATE

This is to certify that **Suman**

of **SRK Institute of technology**

has Participated in **Five Day National Level Online FDP** on **Effective Pedagogy for Science**

from 29.11.2022 to 03.12.2022 jointly organized by Departments of Physics and Mathematics, JMJ College

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Convener
Dr. S. Uma Maheswari
HoD, Mathematics

Organizing Secretary
Ms. C.M. Anitha
HoD, Physics

Principal
Dr. Sr. Shiny KP

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. S. kalpana

2. Designation : Assistant Professor

3. Department : Science and Humanities

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: —————————————————————

"Effective Pedagogy for Science" Org. by JMJ college, Tenali

5. Date & Duration of the Program: 29-11-22 to 03-12-23 & 5 days

6. Associating Professional Body / Agency: JMJ college for Women, Tenali

7. Financial support particulars:

   i.   Registration Charges: 1500/-
   ii.   Travelling Allowances:
   iii. Membership Fee   :
   iv.   Others (if any)   :

Date: 24-05-2023

S. kalpana
Signature of the Staff Member

1. Recommendations of the HOD: ————
2. Recommendations of the Principal: ————
3. Recommendations of the IQAC: ————

*Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 24/5/23

No.   <u>VOUCHER</u>   Date. 24-05-2023

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Name of A/c ....

Paid to...... S. kalpana .... Cash/Cheque ...... 1500/- ....

the Sum of Rupees One thousand & Five hundered Rupees Only

Towards........ F.D.P ....

Prepared by   Approved by   Audited by

₹ 1500/-   S. kalpa
                                                                 Receiver Signature

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This is to certify that **Kalpana Sanampudi**

of **SRK Institute of Technology**

has Participated in **Five Day National Level Online FDP** on **Effective Pedagogy for Science**

from 29.11.2022 to 03.12.2022 jointly organized by Departments of Physics and Mathematics, JMJ College

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Convener	Organizing Secretary	Principal
Dr. S. Uma Maheswari	Ms. C.M. Anitha	Dr. Sr. Shiny KP
HoD, Mathematics	HoD, Physics	

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. ___A·Radhika___

2. Designation : ___Associate Professor___

3. Department : ___CSE___

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: ___A Novel MLP Technique on Augmented Dataset for Heart Attack Prediction___

5. Date & Duration of the Program: 3|12|22

6. Associating Professional Body / Agency: ISSN Publication IJFANS

7. Financial support particulars:

   i.   Registration Charges: 1500/-
   ii.   Travelling Allowances:
   iii. Membership Fee :
   iv.   Others (if any) :

Date: 3|10|22

Signature of the Staff Member

1. Recommendations of the HOD:
2. Recommendations of the Principal:
3. Recommendations of the IQAC:

*Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 3|10|22

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Name of A/c _Dr. A. Radhika_

Paid to _Dr. A. Radhika_   Cash/Cheque _1500_

the Sum of Rupees _One thousand Five hundred rupees Only_

Towards _A Novel MLP Technique on Augmented Dataset for Heart Attack Prediction_

G.Hemagdhari
Prepared by

Radhika
Approved by

Audited by

₹ 1500/-

Radhika
Receiver Signature

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ENIKEPADU, VIJAYAWADA-521 108.

A Novel MLP Technique on Augmented Dataset for Heart Attack Prediction

[1]Dr.D. Anitha Kumari, [2]Dr. A. Pathanjali Sastri, [3]Dr. A. Radhika, [4] CH.N.V.Jyothirmai

[1]Professor, CSM, TKR College of Engineering and Technology, Hyderabad
[2]Professor, Department of CSE, PSCMR College of Engineering and Technology, Vijayawada, A.P
[3]Associate Professor, Dept of CSE, SRK Institute of Technology, Enikepadu, Vijayawada
[4]Assistant Professor, Department of CSE, PSCMR College Of Engineering and Technology, Vijayawada, A.P

ABSTRACT: Heart Attack is the leading life threatening disease because of the stress life facing by the humans. Traditional approaches are utilizing the 13 attributes related to medical tests like cholestral, threadmill test, and others. But the proposed model integrates the genetic algorithm known as "Particle Swarm Intelligence" algorithm with neural networks to perform the dimensionality reduction and classify the dataset using the customized neural network. The proposed model uses an augmented dataset that contains general information along with medical test reports, which are presented in the form of 55 attributes. The model also has the capability to predict the sub classification like mild, moderate, and severe. Neural Networks helps the automation system to extract the features automatically and implementation of genetic algorithm reduces the features and customization of layers helps the model to find the probability of each option and chooses the one with highest probability.

Keywords: Genetic Algorithms, Neural Networks, Customization, Attribute Selection, Augmentation

INTRODUCTION:

Greek words for "higher level" and "discovery" include "meta" and "heuristic." Typically, this approach finds outstanding answers by avoiding cost complexity. Let's talk about two of the many authors' definitions of these methodologies from various perspectives. In order to swiftly find solutions that are close to ideal, data is organised using learning techniques. A subordinate heuristic is driven by an iterative generating process that integrates cognitively disparate thoughts to achieve this. a master process that iteratively guides and modifies the activities of subpar heuristics to deliver high-quality results in a short amount of time. Iterations may include modifying a single solution—complete or insufficient—or a collection of connected solutions.

IJFANS
International Journal of
Food And Nutritional Sciences

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Financial Support Request Letter

1. Name of the Staff Member   : Dr./Mr./Ms. ——— B. Chinni

2. Designation   : Asst. prof.

3. Department   : MBA

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: A Study on "Impact of Digital Marketing practices on sales Growth & Sustainability of MSMEs.

5. Date & Duration of the Program: December-2022

6. Associating Professional Body / Agency: International Jounal of pharmo -ceutical Negative

7. Financial support particulars:

   i.   Registration Charges: 1500/- (fifteen hundred).
   ii.   Travelling Allowances:
   iii. Membership Fee   :
   iv.   Others (if any)   :

Date: 30/12/2022   Signature of the Staff Member

1. Recommendations of the HOD: B.Suresh
2. Recommendations of the Principal:
3. Recommendations of the IQAC:

*Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 30/12/22

No.   **VOUCHER**   Date. 02/01/2022

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Name of A/c ....

Paid to MR. B. Chinni .... *Cash/Cheque* Cash.

the Sum of Rupees One thousand and Five hundred

Towards Research paper publication.

....

Prepared by   Approved by   Audited by

₹ 1500/- .   Receiver Signature

Impact Of Digital Marketing Practices On Sales Growth And Sustainability Of Msmes

Mr. Neelapala Venkat[1], Mrs. Devi Pathivada[2], Mr. Banavathu Chinni[3], Dr. A. S. Prasad[4], Mr. Inti Prabhakara Rao[5], Mr. Ramaswamy Palla[6]

[1]Assistant Professor, Department of Management Science, Sasi Institute of Technology & Engineering, Tadepalligudem, Andhra Pradesh, India-534101. venkatt2020iittm@gmail.com.

[2]Assistant Professor, Department of MBA, Sri Vasavi Engineering College, Peda Tadepalli, Andhra Pradesh, India-534101. devi.pathivada@gmail.com.

[3]Department of MBA, Assistant Professor, SRK Institute of Technology, Vijayawada, Andhra Pradesh, India-534101. chinnivspt@gmail.com.

[4]Professor, Department of Management Studies, West Godavari Institute of Science & Engineering, Tadepalligudem, Andhra Pradesh, India-534101. Prof.satyaprasad@gmail.com.

[5]Assistant Professor, Department of MBA, Dr. CS Rao PG Centre, Sri Y N College, Narsapur-534275.

[6]Assistant Professor, Department of Management Science, Sasi Institute of Technology & Engineering, Tadepalligudem, Andhra Pradesh, India-534101. Ramaswamy.palla@gmail.com.

DOI: 10.47750/pnr.2022.13.S10.429

Abstract

The study's goal is to uncover which aspects of digital advertising have the greatest impact on sales and revenue. The data provided is analysed using quantitative methods, specifically structural equation modelling, collecting representative data by employing procedures that are simple to implement. The data from an online survey of 150 micro, small, and medium-sized businesses (MSMEs) in the Hyderabad area were analysed. According to the data, digital marketing has a significant positive effect on business outcomes such as revenue growth and company lifespan. 'Digital marketing' refers to promotional efforts spread throughout a wide variety of digital channels, such as the web, social media, and search engines (SEO). Among the most widely used digital platforms for long-term business success, the results suggest that social media is where most MSME owners spend their time.

Keywords: Digital marketing, sales performance, and sustainability

Introduction:

One of the most exciting and innovative areas of business today is marketing. Executives in contemporary marketing firms require a reliable method of monitoring their customers, competitors, and external environment. Online marketing and advertising are what IM is all about. Because of the widespread availability of the Internet and electronic commerce, marketing and advertising products is easier. "Electronic commerce" refers to any market that takes place solely in cyberspace. E-commerce, or electronic commerce, is the process of conducting business activities including buying, selling, and exchanging products and services online. Online marketing is simply one subset of the many activities that make up electronic commerce.

Literature review

The purpose of digital marketing is to help more firms take advantage of more efficient means of promotion and advertising to reach more potential clients. Using this kind of promotion, companies of all sizes may reach out to potential customers 24/7 via the internet (Agostini &Nosella, 2020; Maduku et al., 2016; Samoilenko &Osei-Bryson, 2018). So, the growth, productivity, and competitiveness of small businesses are all dependent on their use of digital technologies. Small and medium-sized enterprises (SMEs) that use digital and social media marketing have a better chance of expanding their customer bases and retaining them (Taiminen&Karjaluoto,

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Financial Support Request Letter

1. Name of the Staff Member   : Dr./Mr./Ms. _Ch Pavani_

2. Designation   : _Assistant Professor_

3. Department   : _Computer Science & Engineering_

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: ----------------------------------

Applications of AI & ML in Civil Engineering

5. Date & Duration of the Program: _24/11/2022 to 29/11/2022_

6. Associating Professional Body / Agency: _Vishnu Universal learning._

7. Financial support particulars:

   i.   Registration Charges: _500/-_
   ii.   Travelling Allowances:
   iii. Membership Fee   :
   iv.   Others (if any)   :

Date: _18/11/2022_   Signature of the Staff Member

---

1. Recommendations of the HOD: _B. Cham_
2. Recommendations of the Principal:
3. Recommendations of the IQAC:

*Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: _18/11/2022_

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VOUCHER

No.   Date

SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c........Ch Pavani

Paid to........Ch. Pavani........Cash/Cheque....500

the Sum of Rupees....Five hundred rupees Only

Towards....Applications....of....AI&ML....in....Civil Engineering

G. Hemagdhar
Prepared by

Approved by

Audited by

Receipt Signature

₹ 500/-

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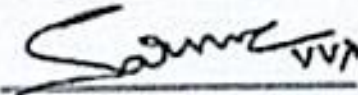
Certificate of Participation

This is to certify that Prof./Dr./Mr./Mrs./Ms.

CHAKKA PAVANI

has participated in the 5-day online FDP on "Applications of Artificial Intelligence & Machine Learning in Civil Engineering" organized by the Department of Civil Engineering, Vishnu Institute of Technology during 24th November 2022 to 29th November 2022

Certificate id: AAIMLCEP50

Mr. V V S Sarma
HOD, CE

Dr. D Suryanarayana
Director &Principal

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SRK INSTITUTE OF TECHNOLOGY
VIJAYAWADA

Financial Support Request Letter

1. Name of the Staff Member   : Dr./Mr./Ms. ___B. lakshmi___

2. Designation   : ___Assistant Professor___

3. Department   : ___CSE___

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: ------------------------

___Applications of Artificial Intelligence & ML___

5. Date & Duration of the Program: 24|11|22 - 29|11|22

6. Associating Professional Body / Agency: Vishnu Institute of Technology

7. Financial support particulars:

   i.   Registration Charges: 500|-
   ii. Travelling Allowances:
   iii. Membership Fee   :
   iv. Others (if any)   :

Date: 2|11|22

Signature of the Staff Member

1. Recommendations of the HOD:
2. Recommendations of the Principal:
3. Recommendations of the IQAC:

*Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 2|11|22

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SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c...... R. lakshmi

Paid to...... R. lakshmi ...... Cash/Cheque...... 500

the Sum of Rupees...... Five hundred rupees

Towards Applications of Artificial Intelligence & ML

L. HemasudhaRw
Prepared by

Redhika
Approved by

Audited by

₹ 500|-

Receiver Signature

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(Ministry of HRD Innovative)

Certificate of Participation

This is to certify that Prof./Dr./Mr./Mrs./Ms.

R.LAKSHMI

has participated in the 5-day online FDP on "Applications of Artificial Intelligence & Machine Learning in Civil Engineering" organized by the Department of Civil Engineering, Vishnu Institute of Technology during 24th November 2022 to 29th November 2022

Mr. V V S Sarma
HOD, CE

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Dr. D Suryanarayana
Director &Principal

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. ___G. M. Padmaja___

2. Designation : ___Assistant Professor___

3. Department : ___CSE___

4. Conference / Publication / Membership Fee / Workshop / FDP ✓ / Seminar / Training / Industrial Visit / Tours With details: ----------------------------

   ___Applications of Artificial Intelligence & ML___

5. Date & Duration of the Program: 24|11|23   29|11|23

6. Associating Professional Body / Agency: UIT (A)

7. Financial support particulars:

   i.   Registration Charges: 500/-
   ii.   Travelling Allowances:
   iii. Membership Fee   :
   iv.   Others (if any)   :

Date: 12|11|23

Signature of the Staff Member

1. Recommendations of the HOD:
2. Recommendations of the Principal:
3. Recommendations of the IQAC:

*Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 12|11|23

PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY
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VOUCHER

No.   Date 30/12/23

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Name of A/c...... G. M. Padmaja

Paid to...... G. M. Padmaja ...... Cash/Cheque...... 500

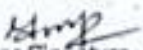the Sum of Rupees...... Five hundred rupees only

Towards...... Applications of AI & ML

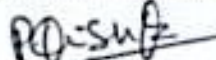G. HemaRudhaPri
Prepared by

Radha
Approved by

Audited by

₹ 500/-

Receiver Signature

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Winner of National Quality Award,
Vishnupur, Bhimavaram-534202, W. G. District, Andhra Pradesh, India)

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(Ministry of HRD Initiative)

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This is to certify that Prof./Dr./Mr./Mrs./Ms.

G.M.PADMAJA

has participated in the 5-day online FDP on "**Applications of Artificial Intelligence & Machine Learning in Civil Engineering**" organized by **the Department of Civil Engineering**, Vishnu Institute of Technology during 24th November 2022 to 29th November 2022

Mr. V V S Sarma
HOD, CE

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Dr. D Suryanarayana
Director &Principal

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. ———— R. Kiran Kumar

2. Designation : ———— Assistant professor

3. Department : ———— ME

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: ————

———— Hybrid Electric vehicles

5. Date & Duration of the Program: 21/11/22 – 25/11/22

6. Associating Professional Body / Agency: GMRIT, & VRSEC

7. Financial support particulars:

   i. Registration Charges: 500/-
   ii. Travelling Allowances:
   iii. Membership Fee :
   iv. Others (if any) :

Date: 21/11/22   Signature of the Staff Member

1. Recommendations of the HOD:
2. Recommendations of the Principal:
3. Recommendations of the IQAC: ————   *Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 28/11/22

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No.   <u>VOUCHER</u>   Date...2/4/22

SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c............ Faculty Development program

Paid to...Mr. R. Pavan kumar...Cash/Cheque....Cash

the Sum of Rupees............ Five hundred Rupees only

Towards............ FDP

Prepared by   Approved by   Audited by

₹   500/—   Receiver Signature

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GMR Institute Of Technology, Rajam

&

V R Siddhartha Engineering College, Vijayawada

DEPARTMENTS OF MECHANICAL ENGINEERING

Certificate of Participation

This is to certify that **RAMISETTI KIRAN KUMAR, Assistant professor**, of **Mechanical Engineering Department, SRK Institute of Technology** has participated in one week FDP on "HYBRID ELECTRIC VEHICLES" Jointly organized by the Departments of Mechanical Engineering of GMR Institute of Technology, Rajam and Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada during 21st -25th November 2022.

Dr. A. Avinash	Dr. S. Srinivas Prasad	Dr. V. Rambabu	Dr. N. Vijaya Sai
Convener	Convener	Professor & Head	Professor & Head
GMRIT	VRSEC	GMRIT	VRSEC

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SRK INSTITUTE OF TECHNOLOGY
VIJAYAWADA

Financial Support Request Letter

1. Name of the Staff Member   : Dr./Mr./Ms. ——— Y. Durga Bhavani

2. Designation   : ——— Asst. professor.

3. Department   : ——— ME

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: ———

——— Hybrid Electric Vehicles ———

5. Date & Duration of the Program: 21/11/22 – 25/11/22

6. Associating Professional Body / Agency: GMR & VRSEC

7. Financial support particulars:

   i.   Registration Charges: 500/–
   ii.   Travelling Allowances:
   iii. Membership Fee   :
   iv.   Others (if any)   :

Date: 28/11/22

Signature of the Staff Member

1. Recommendations of the HOD: ———
2. Recommendations of the Principal: ———
3. Recommendations of the IQAC: ———   *Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 28/11/22

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VOUCHER

No. _____   Date. 28-11-22

SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c. _____ Faculty Development program

Paid to. Ms. Y. Durga Bhavani Cash/Cheque _____ Cash.

the Sum of Rupees _____ five hundred Rupees only.

Towards _____ FDP

Prepared by   Approved by   Audited by

₹ 500/-   Receiver Signature

GMR Institute Of Technology, Rajam

&

V R Siddhartha Engineering College, Vijayawada
DEPARTMENTS OF MECHANICAL ENGINEERING

Certificate of Participation

This is to certify that **Yerramsetti Durga Bhavani, Assistant Professor**, of **Mechanical Engineering Department, SRKIT** has participated in one week FDP on **"HYBRID ELECTRIC VEHICLES "** Jointly organized by the Departments of Mechanical Engineering of GMR Institute of Technology, Rajam and Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada during 21st -25th November 2022.

Dr. A. Avinash
Convener
GMRIT

Dr. S. Srinivas Prasad
Convener
VRSEC

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Certificate ID 8Z7FJU-CE000093

Dr. V. Rambabu
Professor & Head
GMRIT

Dr. N. Vijaya Sai
Professor & Head
VRSEC

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. D. Anusha

2. Designation : Associate Professor

3. Department : Computer Science & Engineering

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: ----

    Data Analysis Tools & Techniques for Text & Speech Analytics

5. Date & Duration of the Program: 14/11/2022 - 21/11/2022

6. Associating Professional Body / Agency: AICTE

7. Financial support particulars:

    i.   Registration Charges: 500/-
    ii. Travelling Allowances:
    iii. Membership Fee   :
    iv. Others (if any)   :

Date: 10/11/2002

Signature of the Staff Member

1. Recommendations of the HOD:
2. Recommendations of the Principal:
3. Recommendations of the IQAC:

*Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 10/11/2022

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SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c ... Dr. D. Anusha

Paid to ... Dr. D. Anusha   Cash/Cheque ... 500

the Sum of Rupees ... Five hundred rupees Only

Towards ... Data Analysis Tools & Techniques for Text & Speech Analytics

G. Hemasudha Rni
Prepared by

Radha
Approved by

Audited by

₹ 500/-

Receiver Signature

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ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

AICTE Training and Learning (ATAL) Academy

Certificate

This is certified that ANUSHA DERABGULA, Associate Professor of SRKIT participated & completed successfully AICTE Training And Learning (ATAL) Academy Blended/Hybrid FDP on "Data Analysis Tools & Techniques for Text and Speech Analytics" from 2022-11-14-2022-11-19 to 2022-11-21-2022-11-25 at LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING .

Advisor-I, ATAL Academy
Mamta Rani Agarwal

Coordinator

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Accredited with NAAC 'A' grade

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. — V. Bala chinalingam

2. Designation : Assistant Profemn.

3. Department : ME

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: —
   Engineering Drawing through AutoCAD "

5. Date & Duration of the Program: 10/11/22 to 15/11/22

6. Associating Professional Body / Agency: CVR CE

7. Financial support particulars:

   i. Registration Charges: 500/-
   ii. Travelling Allowances:
   iii. Membership Fee :
   iv. Others (if any) :

Date: 28/11/22

Signature of the Staff Member

1. Recommendations of the HOD: P.O.Suß
2. Recommendations of the Principal:
3. Recommendations of the IQAC:

*Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 28/11/22

No.   **VOUCHER**   Date... 28/11/12

SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c .... Faculty Development program.

Paid to Mr. V. Bala chniz Inyom Cash/Cheque .... Cash

the Sum of Rupees .... Five hundred Rupees only

Towards .... Fdp.

Prepared by   Approved by   Audited by

₹ 500/-

Receiver Signature

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CVR COLLEGE OF ENGINEERING

(An Autonomous Institution, Accredited by NBA, AICTE, NAAC 'A' Grade)
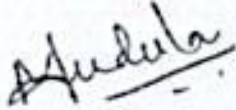
Vastunagar, Mangalpalli (V), Ibrahimpatnam (M), Rangareddy (D), Telangana-501510.
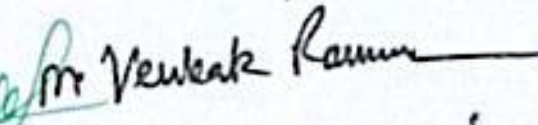
DEPARTMENT OF MECHANICAL ENGINEERING
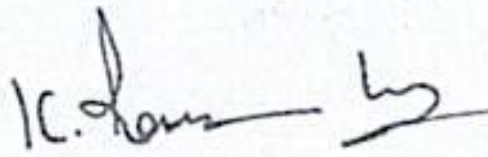
CERTIFICATE OF PARTICIPATION

This is to certify that **Mr Bala Chinalingam Vanam , Assistant Professor**

of **SRK INSTITUTE OF TECHNOLOGY** _attended One Week Faculty Development Programme (Online mode) on " Engineering Drawing through AutoCAD " organized by Department of Mechanical Engineering, CVR College of Engineering, Hyderabad from 10th to 15th November , 2022._

Mrs. G. Mrudula
Co-ordinator

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Dr. M. Venkata Ramana
Head of the Department

Dr. K. Ramamohan Reddy
Principal

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. ——— A. Stanly Kumar

2. Designation : Associate professor

3. Department : ME

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: ————————

   National Institute Ranking Frame-work (NIRF)· A way to proceed & self-Evaluation of Instituion

5. Date & Duration of the Program: 12/11/22

6. Associating Professional Body / Agency: VIGNAN's University

7. Financial support particulars:

   i.   Registration Charges: 1000/-
   ii. Travelling Allowances:
   iii. Membership Fee   :
   iv. Others (if any)   :

Date: 10/11/22   Signature of the Staff Member

1. Recommendations of the HOD: PO·Sub
2. Recommendations of the Principal:
3. Recommendations of the IQAC: *Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 10/11/22

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No.   **VOUCHER**   Date 13-12-22

SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c .... Workshop (FDP)

Paid to Dr. A. Stanly Kumar :Cash/Cheque ..... Cash.

the Sum of Rupees ...... One thousand Rupees only.

Towards .... Workshop.

Prepared by   Approved by   Audited by

₹ 1000/-   Receiver Signature

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VIGNAN'S
Foundation for Science, Technology & Research
UNIVERSITY

CERTIFICATE OF PARTICIPATION

This is to certify that

Mr. Staniy kumar A

of
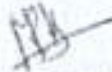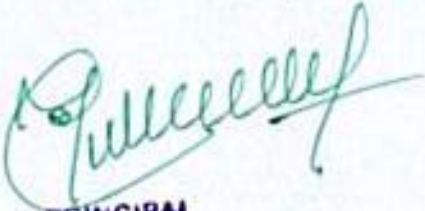
SRK Institute of Technology

Participated the One-Day National Workshop on

A WAY TO PROCEED AND SELF-EVALUATION OF THE INSTITUTION

conducted on the eve of World Quality Week on 12th November, 2022 organised by Internal Quality Assurance Cell (IQAC), Vignan's Foundation for Science, Technology and Research Deemed to be University.

Dr. M. Ramakrishna
Professor & Dean, IQAC

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Dr. P. NAGABHUSHAN
Vice-Chancellor

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. _P. Jayasri_

2. Designation : _Assistant Professor_

3. Department : _Computer Science & Engineering_

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: ----------

   Inculcating Universal Human Values in Technical Education

5. Date & Duration of the Program: _31|10|23 – 4|11|23_

6. Associating Professional Body / Agency: _AICTE_

7. Financial support particulars:
   _500/-_

   i. Registration Charges:
   ii. Travelling Allowances:
   iii. Membership Fee :
   iv. Others (if any) :

Date: _25|10|23_

Signature of the Staff Member

1. Recommendations of the HOD: _B. ...._
2. Recommendations of the Principal: _....._
3. Recommendations of the IQAC: _....._

*Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: _25|10|23_

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Name of A/c........ P. Jayasri

Paid to........ P. Jayasri .... Cash/Cheque........ 500

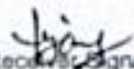the Sum of Rupees........ Five hundred rupees Only

Towards........ Inculcating universal Human Values in Technical Education

G. Hemasudhapani
Prepared by

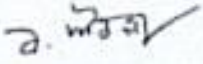Radhue
Approved by

Audited by

₹ 500/-

Received Signature

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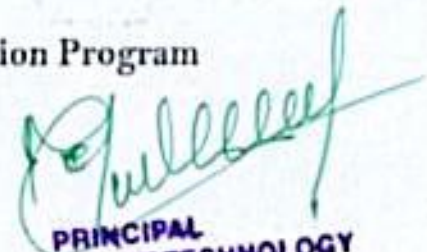SRK INSTITUTE OF TECHNOLOGY
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NELSON MANDELA MARG, VASANT KUNJ, NEW DELHI

AICTE

Certificate of Participation

This is to certify that Mrs. Paruchuri Jayasri from S.R.K. Institute of Technology, Vijayawada has participated and successfully completed the 5-day Online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) from 31st October to 4th November 2022.

Dr. Rajneesh Arora
Chairman
National Coordination Committee for Induction Program

Prof. Rajive Kumar
Member Secretary, AICTE

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Financial Support Request Letter

1. Name of the Staff Member   : Dr./Mr./Ms. ___ B. Achalatha

2. Designation   : ___ Associate Professor

3. Department   : ___ CSE

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: ___ Using machine learning & Fake Image Preprocessing

5. Date & Duration of the Program: 1 | 11 | 2022

6. Associating Professional Body / Agency: UGC Care Group-1

7. Financial support particulars:

   i.   Registration Charges: 1500/-
   ii.   Travelling Allowances:
   iii. Membership Fee   :
   iv.   Others (if any)   :

Date: 12|9|22

Signature of the Staff Member

1. Recommendations of the HOD: B. Achalatha
2. Recommendations of the Principal:
3. Recommendations of the IQAC:

*Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 12|9|22

No.   **VOUCHER**   Date 2/11/22

SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c...... Dr. B. Ashalatha

Paid to Dr. B. Ashalatha .... Cash/Cheque 1500

the Sum of Rupees...... One thousand Five hundred rupees Only

Towards...... Using machine learning & Fake Image

.......Reprocessing

G. Hemazidra Rai
Prepared by

Radhika
Approved by

Audited by

₹ 1500/-

B. ......
Receiver Signature

USE MACHINE LEARNING AND FAKE IMAGE PREPROCESSING

Dr.B.ASHALATHA, Associate Professor, CSE Department, SRK Institute of Technology, AP,

ABSTRACT

Recently fake images are more and more realistic with high-quality, even hard for human eyes to detect. Due to these fake images many fields like forensics are facing problems, even in social media also it became a problem because of the fake images. Many forensics people are trying to overcome this problem. As new types of fake images are emerging fast, the generalization ability of detecting new types of fake images is absolutely an essential task, which is also very challenging.

INTRODUCTION

In digital images occupy an important position in different life's fields and image tampering has become affordable effortlessly, which results in a widespread of tampered and fake images through the internet and social media specifically..In this project we are designing LBP Based machine learning Convolution Neural Network called LBPNET to detect fake face images. Here first we will extract LBP from images and then train LBP descriptor images with Convolution Neural Network to generate training model. Whenever we upload new test image then that test image will be applied on training model to detect whether test image contains fake image or non-fake image. Local binary patterns (LBP) is a type of visual descriptor used for classification in computer vision and is a simple yet very efficient texture operator which labels the pixels of an image by thresholding the neighborhood of each pixel and considers the result as a binary number. Due to its discriminative power and computational simplicity, LBP texture operator has become a popular approach in various applications. It can be seen as a unifying approach to the traditionally divergent statistical and structural models of texture analysis. Perhaps the most important property of the LBP operator in real-world applications is its robustness to monotonic gray-scale changes caused, for example, by illumination variations. Another important property is its computational simplicity, which makes it possible to analyze images in challenging real-time settings.

The LBP feature vector, in its simplest form, is created in the following manner:

Divide the examined win` w into cells (e.g. 16x16 pixels for each cell).

For each pixel in a cell, compare the pixel to each of its 8 neighbors (on its left-top, left-middle, left-bottom, right-top, etc.). Follow the pixels along a circle, i.e. clockwise or counter-clockwise.

Where the center pixel's value is greater than the neighbor's value, write "0". Otherwise, write "1". This gives an 8-digit binary number (which is usually converted to decimal for convenience).

Compute the histogram, over the cell, of the frequency of each "number" occurring (i.e., each combination of which pixels are smaller and which are greater than the center). This histogram can be seen as a 256-dimensional feature vector.

Optionally normalize the histogram.

Concatenate (normalized) histograms of all cells. This gives a feature vector for the entire window.The feature vector can now be processed using the Support vector machine, extreme learning machines, or some other machine learning algorithm to classify images. Such classifiers can be used for face recognition or texture analysis.

PROPOSED SYSTEM

Now-a-days biometric systems are useful in recognizing person's identity but criminals change their appearance in behaviour and psychological to deceive recognition system. To overcome from this problem we are using new technique called Deep Texture Features extraction from images and then building train machine learning model using CNN (Convolution Neural Networks) algorithm. This

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. ....K. Satyanarayana........

2. Designation : ....Asst. Professor........

3. Department : Electrical and Electronics Engineering

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: --

   NPTEL online Certification on programming in Java.

5. Date & Duration of the Program: July - October (2022)

6. Associating Professional Body / Agency:

7. Financial support particulars:

   i.   Registration Charges: 3000/-
   ii. Travelling Allowances:
   iii. Membership Fee   :
   iv. Others (if any)   :

Date: 03/11/2022

K. Satyanarayana
Signature of the Staff Member

1. Recommendations of the HOD: ----
2. Recommendations of the Principal: ----
3. Recommendations of the IQAC: ----

*Sanctioned / Not Sanctioned

Account Department
Accountant: B. Abul
Date: 3/11/22

VOUCHER

No.   Date 3/11/2022

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ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c...

Paid to... K. SATYANARAYANA cash/cheque... Cash...........................
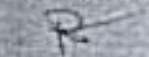
the Sum of Rupees... Three thousand rupees only...............................

Towards... NPTEL online certification on Programming in
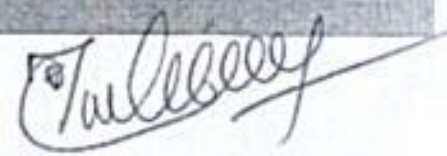
..... Java..

Prepared by   Approved by   Audited by

₹ 3,000/-   Receiver Signature

(3) 2047-23

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

SATYANARAYANA KANULLA

for successfully completing the course

Programming in Java

with a consolidated score of **76** %

Online Assignments	24.84/25	Programming Assignment	25/25	Proctored Exam	26.5/50

Total number of candidates certified in this course: 6899

Jul-Oct 2022

(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

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No. of credits recommended: 3 or

To validate the certificate

No. NPTEL22CS102S97160585

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. _D. Raghatha Rao_

2. Designation : _Assistant professor._

3. Department : _ME_

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: _Finite Element Analysis with ANSYS Workbench_

5. Date & Duration of the Program: _06/10/22 to 15/10/22_

6. Associating Professional Body / Agency: _AICTE_

7. Financial support particulars:

    i.   Registration Charges: _500/-_

    ii.   Travelling Allowances:

    iii. Membership Fee :

    iv. Others (if any) :

Date: _4/10/22_   Signature of the Staff Member

1. Recommendations of the HOD: _PD. Suß_
2. Recommendations of the Principal:
3. Recommendations of the IQAC: *Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: _4/10/22_

No.   <u>VOUCHER</u>   Date 22/11/22

SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c Faculty Development programme.

Paid to Mr. D. Rognalla Rao Cash/Cheque Cash.

the Sum of Rupees Five hundred Rupees only

Towards online Training

Prepared by   Approved by   Audited by

₹ 500/-   Receiver Signature

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SRK INSTITUTE OF TECHNOLOGY
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SRINIVASA RAMANUJAN INSTITUTE OF TECHNOLOGY

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Rotarypuram Village, B K Samudram Mandal, Ananthapuramu - 515701.

This is to certify that Mr. D. ROGNATHA RAO has participated & completed successfully a one-week online AICTE Short Term Training Programme (Phase II) on "Finite Element Analysis with ANSYS Workbench" from 06/10/2022 to 15/10/2022, organized by the Department of Mechanical Engineering, Srinivasa Ramanujan Institute of Technology, Ananthapuramu.

Dr D. Sai Chaitanya Kishore, Ph.D.,
HOD, ME & COORDINATOR

Dr. T. Hitendra Sarma, Ph.D
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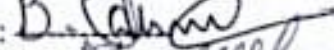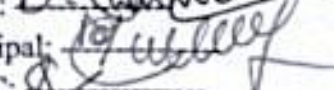SRK INSTITUTE OF TECHNOLOGY
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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. N. Neelima Priyanka

2. Designation : Associate Professor

3. Department : Computer Science & Engineering

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: --

    Familiarization Sessions on Filing IP in Realtime

5. Date & Duration of the Program: Sep 03 - Oct 01, 2022

6. Associating Professional Body / Agency: MBU University

7. Financial support particulars:

    i. Registration Charges: 500/-
    ii. Travelling Allowances:
    iii. Membership Fee :
    iv. Others (if any) :

Date: 25|8|22

Signature of the Staff Member

1. Recommendations of the HOD:
2. Recommendations of the Principal:
3. Recommendations of the IQAC:

*Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 25|8|22

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VOUCHER

Date 2/10/22

SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c Dr.N. Neelima Priyanka

Paid to Dr.Neelima Priyanka   Cash/Cheque   500

the Sum of Rupees Five hundred rupees Only

Towards Familiarization Sessions On Filing IP in Realtime

G. Hema Sudha Rani
Prepared by

Radha
Approved by

Received by

₹ 500/-

Receiver Signature

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CERTIFICATE

MBU
MOHAN BABU
UNIVERSIT
DREAM. BELIEVE. ACHIEV

OF AWARD

PROUDLY PRESENTED TO

Dr. Neelima Priyanka Nutulapati

of **SRK Institute of Technology**

for successful completion of a Five Week Faculty Development Programme on

"FAMILIARIZATION SESSIONS ON FILING IP IN REAL-TIME"

(Sep 03 – Oct 01, 2022)

with a consolidated score of **95 %**

Online Assignments	95/100	Sessions attended	13/15

Organized by
Intellectual Property Rights (IPR) Cell,
Mohan Babu University
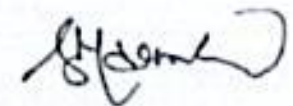
(Erstwhile Sree Vidyanikethan Engineering College (Autonomous))

Diamond

Participant ID : MBU028

Dr. K. K. Baseer
IPR Cell Coordinator

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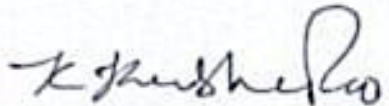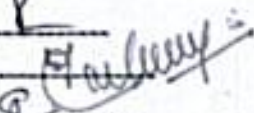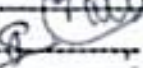
Dr. B. M. Sathish
Dean SET, MBU

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. K. krishna Rao

2. Designation : Professor

3. Department : Science and Humanities

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: "Sheaf Representation of

   Almost Boolean Algebras"

5. Date & Duration of the Program: October, 2022.

6. Associating Professional Body / Agency: GIS, Science Journal

7. Financial support particulars:

   i.   Registration Charges: 15000/-
   ii.   Travelling Allowances:
   iii.   Membership Fee   :
   iv.   Others (if any)   :

Date: 07-08-2022

Signature of the Staff Member

1. Recommendations of the HOD: ------
2. Recommendations of the Principal: ------
3. Recommendations of the IQAC: ------

*Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 9|8|22

No.   <u>VOUCHER</u>   Date... 07-08-22

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Name of A/c......

Paid to... **Dr. K. Krishna Rao** .... Cash/Cheque... **5.000/-**

the Sum of Rupees.... **Five thousand Rupees Only**

Towards...... **Paper Publication**

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₹ **5000/-**   Receiver Signature

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Towards ...... paper publication

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Towards paper publications

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SHEAF REPRESENTATION OF ALMOST BOOLEAN ALGEBRAS

R. C. Mani[1] K. Krishna Rao[2], K. Rama Prasad[3*] and
Ch. Santhi Sundar Raj[4]

[1]Department of Mathematics, PVP Siddhartha Institute of Technology,
kanuru, Vijayawada-520007, A.P., India.

[2]Department of Mathematics, SRK Institute of Technology,
Enkipadu, Vijayawada-521108, A.P., India.

[3,4]Department of Engineering Mathematics, Andhra University
Visakhapatnam- 530 003, A.P., India.

Abstract

An Almost Boolean Algebra $(A, \wedge, \vee, 0)$ (abbreviated as ABA) is an Almost Distributive Lattice (ADL) with a maximal element in which for any $x \in A$, there exists $y \in A$ such that $x \wedge y = 0$ and $x \vee y$ is a maximal element in A. If (S, Π, X) is a sheaf of nontrivial discrete ADLs over a Boolean space such that for any global section f, support of f is open, then it is proved that the set $\Gamma(X, S)$ of all global sections is an ABA. Conversely, it is proved that every ABA is isomorphic to the ADL of global sections of a suitable sheaf of discrete ADL over a Boolean space.

AMS Subject Classification: 06D99, 06D15

Key words: Almost Boolean Algebra (ABA), discrete ADL, dense element, maximal element, global section, support.

1

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. ....K. Satynarayana........

2. Designation : ....Asst : Professor ....

3. Department : Electrical and Electronics Engineering

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: --

.........Java Full Stack Master class...........

5. Date & Duration of the Program: 01|09|2022 — 30|09|2022

6. Associating Professional Body / Agency:

7. Financial support particulars:

   i.   Registration Charges: 3000|–
   ii.   Travelling Allowances:
   iii. Membership Fee   :
   iv.   Others (if any)   :

Date: 10|11|2022

K Satyanarayana
Signature of the Staff Member

1. Recommendations of the HOD: ------
2. Recommendations of the Principal:
3. Recommendations of the IQAC: ------

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Accountant: S . Nhil
Date: 10|4|22

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Name of A/c ....

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the Sum of Rupees Three thousand rupees only ....

Towards ... CERTIFICATION PROGRAMME (JAVA FULL STASK

MASTER CLASS) ....

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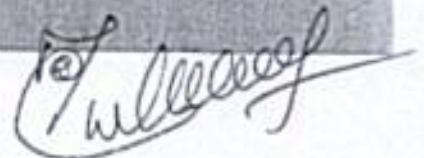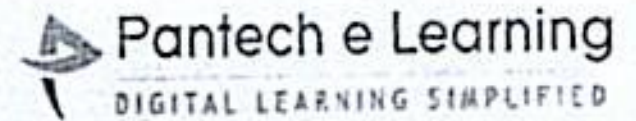
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COLLEGE   SRK INSTITUTE OF TECHNOLOGY

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at Pantech e Learning Pvt Ltd, Chennai

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M.Malaiyappan
Director
Pantech e Learning

Dr.Ravi Gujjela
Chief General Manager (Technical)
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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. ....A:krishoa priya

2. Designation : ....Assistant professor

3. Department : Civil

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: ....Application of Geo information and remote sensing in Engineering b Technology

5. Date & Duration of the Program: 19/9/22 to 23/9/22

6. Associating Professional Body / Agency: Bharat-Ratna Indira Gandhi College of engineering, Maharashtra

7. Financial support particulars:

   i.   Registration Charges: 3000/-
   ii. Travelling Allowances:
   iii. Membership Fee :
   iv. Others (if any) :

Date: 29/9/2022

Signature of the Staff Member

1. Recommendations of the HOD: ....
2. Recommendations of the Principal: ....
3. Recommendations of the IQAC: ....

*Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 29/9/22

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VOUCHER

No.   Date... 29.09.22

SRK INSTITUTE OF TECHNOLOGY
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Name of A/c........ FDP

Paid to........ A. Krishna Priya ...Cash/Cheque...

the Sum of Rupees........ Three thousand only

Towards 5 day National level FDP on "Application of Geoinformatics and Remote sensing in Engineering & Technology" 19 to 23 Sep 2022

Prepared by

₹ 3000/-

Approved by

Y. ᴄᴛᴅᵧᴄ
29/9/22

Audited by

Receiver Signature

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ENIKEPADU, VIJAYAWADA-521 108.

Bharat-Ratna Indira Gandhi College Of Engineering, Kegaon, Solapur, Maharastra

CERTIFICATE OF PARTICIPATION

This is to certify that **Anumolu Krishna Priya** From **SRK INSTITUTE OF TECHNOLOGY**, Vijayawada

has participated in the 5-Days National Level Faculty Development Programme (FDP) (Online) on "Application of Geoinformatics and Remote Sensing in Engineering & Technology" conducted from **19th to 23rd Sep 2022** organized by Dept. of Civil Engineering.

Prof. Azharoddin Perampalli
Convener

Prof. Rashmi Yadiyapur
Convener & HOD

Dr. B.J. Patil
Principal

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Financial Support Request Letter

1. Name of the Staff Member   : Dr./Mr./Ms. ——— A.krishna priya ———

2. Designation   : ——— Assistant professor ———

3. Department   : ——— Civil ———

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: —— Multidisiplinary and —— modeling approaches in civil Engineering practices

5. Date & Duration of the Program: 13/9/22 to 14/9/22

6. Associating Professional Body / Agency: Dhanekula Institute of Engg & Technology, Vijayawada.

7. Financial support particulars:

   i.   Registration Charges: 3000/-
   ii.   Travelling Allowances:
   iii.   Membership Fee   :
   iv.   Others (if any)   :

Date: 22/9/2022   Signature of the Staff Member

1. Recommendations of the HOD: ———
2. Recommendations of the Principal: ———
3. Recommendations of the IQAC: ———   *Sanctioned / Not Sanctioned

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Accountant:
Date: 22/9/22

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Name of A/c........ FDP

Paid to.... A. Krishna Priya .... Cash/Cheque

the Sum of Rupees..... Three Thousand only

Towards Five day FDP on "Multidisplinary and modeling Approaches in civil Engg practices" 13th -17th sep 2022

Prepared by

Approved by

T. Lelos
22/9/22

Audited by

Receiver Signature

₹ 3000

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DHANEKULA INSTITUTE OF ENGINEERING & TECHNOLOGY

GANGURU, VIJAYAWADA, KRISHNA DISTRICT – 521 139, Andhra Pradesh.

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Department of Civil Engineering

Certificate of Participation

This is to certify that Dr/Mr/Ms/ ANUMOLU KRISHNA PRIYA   of

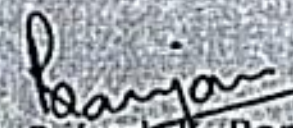SRK INSTITUTE OF TECHNOLOGY   has participated in

a Five Day Faculty Development Programme on "Multidisciplinary and Modeling approaches in Civil Engineering practices", organized by Department of Civil Engineering in collaboration with "DST Centre of Excellence, Department of Geology, Sikkim University, Sikkim" and "ICI- Indian Concrete Institute" Vijayawada Chapter, Andhra Pradesh from 13th – 17th September, 2022 at Dhanekula Institute of Engineering & Technology.

Dr. Vinay Gaddam
Convenor & H.O.D

Dr. Jagadish Vengala
Chairman, ICI-VJWC
PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA-521 108

Dr. Rakesh K. Ranjan
DST centre of Excellence
PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY
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Dr. Ravi Kadiyala
Principal, DIET

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. ___ J. Siva Naga Jyothi ___

2. Designation : ___ Assistant Prof ___

3. Department : ___ Computer Science & Engineering ___

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: -----

 ___ CryptoCurrency, Blockchain & Cyber Security ___

5. Date & Duration of the Program: 12/19/22   16/19/22

6. Associating Professional Body / Agency: KMM

7. Financial support particulars:

    500/-

   i. Registration Charges:
   ii. Travelling Allowances:
   iii. Membership Fee :
   iv. Others (if any) :

Date: 1/9/22

Signature of the Staff Member

1. Recommendations of the HOD:
2. Recommendations of the Principal:
3. Recommendations of the IQAC:

*Sanctioned / Not Sanctioned

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Accountant:
Date: 1/9/22

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No.

Date 17|9|22

SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c...... J. Siva Naga Jyothi

Paid to...... J. Siva Naga Jyothi ...Cash/Cheque... 500

the Sum of Rupees...... Five hundred rupees Only

Towards...... CryptoCurrency, Blockchain & Cyber Security

G. Hemasudhari
Prepared by

Redhik
Approved by

Audited by

Receiver Signature

₹ 500

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KMM COLLEGE OF ARTS AND SCIENCE
THRIKKAKARA,ERNAKULAM,KERALA-682021

(Affiliated to MG University , Approved by AICTE and Govt. Of Kerala)

CERTIFICATE OF PARTICIPATION

This certificate is awarded to

J.SIVANAGAJYOTHI

SRKIT

For participating in A Five Day National Level FDP on
"CRYPTOCURRENCY, BLOCKCHAIN &CYBER SECURITY"
organized by Department of Commerce and Department of
Computer Science, KMM College of Arts and Science, Thrikkakara
from 12th September 2022 to 16th September 2022.

NASIYA K.A.
Convenor & HOD
PG Department of
Commerce

DEEPA V A
Convenor & HOD
UG Department of
Computer Science

Prof. V.U. NOORUDHIN
Principal

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. M. Ekambaram Naidu

2. Designation : Associate Professor

3. Department : Computer Science & Engineering

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: Five days National level FDP on " Cryptocurrency, Blockchain & Cyber Security "

5. Date & Duration of the Program: 12 Sep 2022 - 16 Sep 2022

6. Associating Professional Body / Agency: KMM College of Arts & Science

7. Financial support particulars:

   i. Registration Charges: 500/-
   ii. Travelling Allowances:
   iii. Membership Fee :
   iv. Others (if any) :

Date: 10|9|2022

Signature of the Staff Member

1. Recommendations of the HOD: B. Sajan
2. Recommendations of the Principal:
3. Recommendations of the IQAC:

*Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 10|9|2022

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Name of A/c Dr. M. Ekambaram Naidu

Paid to Dr. M. Ekambaram Naidu   Cash/Cheque   500

the Sum of Rupees Five hundred rupees Only

Towards "Cryptocurrency- Blockchain & Cyber Security"

G. Anagudhati
Prepared by

Radha
Approved by

Audited by

Receiver Signature

₹ 500/-

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(Affiliated to MG University, Approved by AICTE and Govt. Of Kerala)

CERTIFICATE OF PARTICIPATION

This certificate is awarded to

DR.M.EKAMBARAM NAIDU

SRKIT

For participating in A Five Day National Level FDP on
"CRYPTOCURRENCY, BLOCKCHAIN &CYBER SECURITY"
organized by Department of Commerce and Department of
Computer Science, KMM College of Arts and Science, Thrikkakara
from 12th September 2022 to 16th September 2022.

NASIYA K.A.	DEEPA V A	Prof. V.U. NOORUDHIN
Convenor & HOD	Convenor & HOD	Principal
PG Department of	UG Department of	
Commerce	Computer Science	

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. __K. chaitanya__

2. Designation : __Associate Professor__

3. Department : __Computer Science & Engineering__

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: ------------------

__Intellectual Property Rights & Cyber laws__

5. Date & Duration of the Program: __7 Sep 2022, 13 Sep 2022__

6. Associating Professional Body / Agency: __Vel Tech__

7. Financial support particulars:

   i.   Registration Charges: __500/-__
   ii.   Travelling Allowances:
   iii. Membership Fee   :
   iv.   Others (if any)   :

Date: 1|09|23   K. Chaitanya
                                      Signature of the Staff Member

1. Recommendations of the HOD: __B. Jdhm__
2. Recommendations of the Principal:
3. Recommendations of the IQAC: _____   *Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 1|10|23

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VOUCHER

No.

Date 14/9/22

SRK INSTITUTE OF TECHNOLOGY
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Name of A/c ..... Dr. K. chaitanya

Paid to ..... Dr. K. Chaitanya ..... Cash/Cheque 500

the Sum of Rupees ..... Five hundred rupees Only

Towards ..... Intellectual Property Rights & Cyber laws

G. Hema sudhara
Prepared by

Radhuxi
Approved by
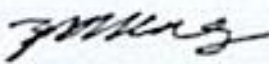
Audited by

₹ 500/-

K. Chaitanya
Receiver Signature

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ENIKEPADU, VIJAYAWADA-521 108.

Vel Tech

Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology

Certificate of Participation

This certifies that Dr. / Mr. /Ms. _Dr. K. Chaitanya_ designated as _Associate Professor_ from _S.R.K. Institute of Technology_

has participated in **One Week International Faculty Development Programme (IFDP)** entitled on

"Intellectual Property Rights and Cyber Laws" organized by the School of Law jointly with the

Office of International Relations at Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and

Technology, Chennai held from 7th September, 2022 to 13th September, 2022.

Prof. Olivia Tan Swee Leng
Resource Person
Multimedia University
Malaysia

Prof. A. Subrahmanyam
Dean – School of Law

PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY

Prof. P. Suresh
Dean – International Relations

S. Salive
Prof. S. Salivahanan
Vice Chancellor

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Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada
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Accredited with NAAC 'A' grade

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. A.Krishna priya

2. Designation : Assistant profssr

3. Department : Civil

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: Designing outcomes Focused questions

5. Date & Duration of the Program: 13/9/22

6. Associating Professional Body / Agency: Inpods

7. Financial support particulars:

   i. Registration Charges: 5000/-
   ii. Travelling Allowances:
   iii. Membership Fee :
   iv. Others (if any) :

Date: 20/9/2022   Signature of the Staff Member

1. Recommendations of the HOD:
2. Recommendations of the Principal:
3. Recommendations of the IQAC: *Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 20/9/22

PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA-521 108.

<u>VOUCHER</u>   Date......20/09/22

SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

No.

Name of A/c...... Certification course.

Paid to..... A Krishna Priya..... Cash/Cheque.....

the Sum of Rupees...... Five Thousand only.....

Towards...... Certificate Course Designing out Comes-focused cur.

13. SEP - 2022

Prepared by   Approved by   Audited by

                               T. Lata
                               20/9/22

₹ 5000 -   Receiver Signature

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SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA-521 108.

CERTIFICATE

PROUDLY PRESENTED TO

ANUMOLU KRISHNA PRIYA

Designing Outcomes-focused questions

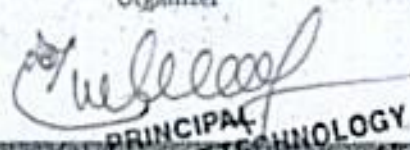Sep 13, 2022

Date of Completion

InPods Ed-tech

Organizer

inpods
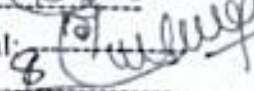
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INSTITUTE OF TECHNOLOGY

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Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada
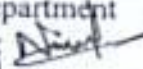(ISO 9001:2015 Certified Institution)
Accredited with NAAC 'A' grade

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. ...A. Veda Sri...

2. Designation : ...Asst. Professor...

3. Department : ...I.T...

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: --------------------

   Applications of Machine learning using Python for Interdisciplinary Research.

5. Date & Duration of the Program: 29.08.2022 to 03.09.2022

6. Associating Professional Body / Agency: ISTE

7. Financial support particulars:

   i.   Registration Charges:
   ii.   Travelling Allowances:
   iii. Membership Fee   :
   iv.   Others (if any)   :   500

Date: 8/9/22

Signature of the Staff Member

1. Recommendations of the HOD:
2. Recommendations of the Principal:
3. Recommendations of the IQAC:

*Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 8/9/22

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SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c...

Paid to...... A. Veda Sri............ Cash/Cheque.... 500/-.........

the Sum of Rupees.. five Hundred Rupees only/-..........

Towards. Applications of Machine learning using python

.....for interdisciplinary Research.

Prepared by

Audited by

₹ 500/-
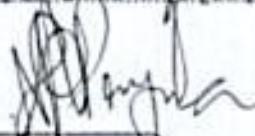
Receiver Signature

PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA-521-108.v

Indian Society for Technical Education
Shaheed Jeet Singh Marg New Delhi – 110 016

CERTIFICATE

This is to certify that Mr/Ms. **AVIRNENI VEDA SRI** has successfully completed ISTE approved SF-STTP/FDP Programme on "**Applications of Machine Learning using Python for Interdisciplinary Research**" held during **29.08.2022** to **03.09.2022** organized by **Dhanekula Institute of Engineering & Technology, Vijayawada, Andhra Pradesh.**

P-2022/5172

Executive Secretary

PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA-521 108.

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Enikepadu, Vijayawada 521108
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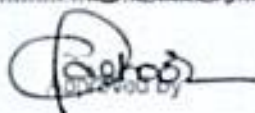(ISO 9001:2015 Certified Institution)
Accredited with NAAC 'A' grade

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. ✓ Ampirtha Mishma

2. Designation : Asst. professor

3. Department : IT

4. Conference / Publication / Membership Fee / Workshop / FDP ✓ / Seminar / Training / Industrial Visit / Tours With details: ---

   Applications of Machine Learning using Python for Interdiscipi-ary Research

5. Date & Duration of the Program: 29-08-2022 to 03-09-2022

6. Associating Professional Body / Agency: ISTE

7. Financial support particulars:

   i.   Registration Charges:
   ii.   Travelling Allowances:
   iii.   Membership Fee   :
   iv.   Others (if any)   :   500

Date: 7/9/22   Signature of the Staff Member

1. Recommendations of the HOD: ....
2. Recommendations of the Principal: ....
3. Recommendations of the IQAC: ....   *Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 7/9/22

No.   <u>**VOUCHER**</u>   Date 7/09/2022

SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839
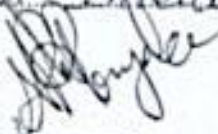
Name of A/c ....

Paid to...... Amutha Mishra ...... Cash/Cheque 500/-

the Sum of Rupees...... Five Hundred Rupees only/-

Towards... Applications of Machine learning using
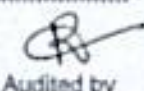
python for Interdisciplinary Research

Prepared by   Approved by   Audited by

₹   500/-   Receiver Signature

PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA-521 108.

Indian Society for Technical Education

Shaheed Jeet Singh Marg New Delhi – 110 016

CERTIFICATE

This is to certify that Mr/Ms. **AMRITHA MISHRA** has successfully completed ISTE

approved SF-STTP/FDP Programme on "Applications of Machine Learning using

Python for Interdisciplinary Research" held during **29.08.2022** to **03.09.2022**

organized by Dhanekula Institute of Engineering & Technology, Vijayawada,

Andhra Pradesh.

P-2022/5211

Executive Secretary

PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA-521 108.

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Enikepadu, Vijayawada 521108
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(ISO 9001:2015 Certified Institution)
Accredited with NAAC 'A' grade

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. J. Ashok

2. Designation : Associate Professor

3. Department : Science and Humanities

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: "Recent Advances On Material Characterizations"

5. Date & Duration of the Program: 29-8-22 to 3-9-22 & One Week

6. Associating Professional Body / Agency: Dept. of Physics, Krishna University, Machilipatn

7. Financial support particulars:

   i.   Registration Charges: 1500/-
   ii.   Travelling Allowances:
   iii.   Membership Fee   :
   iv.   Others (if any)   :

Date: 25-08-2022   Signature of the Staff Member

1. Recommendations of the HOD:
2. Recommendations of the Principal:
3. Recommendations of the IQAC: *Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 25/8/22

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ENIKEPADU.VIJAYAWADA-521 108

VOUCHER

Date **25-08-2021**

SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c ....

Paid to.... **Dr. J. Ashok** .... Cash/Cheque .... **1500/-** ....

the Sum of Rupees **One thousand and Five hundered Rupees**

Towards **Faculty development programme.**

Prepared by

Approved by

Auditied by

J. Ashok
Receiver Signature

₹ **1500/-**

PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA-521 108.
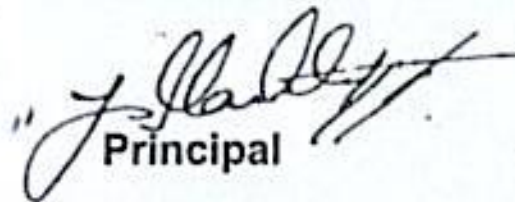
KRISHNA UNIVERSITY, MACHILIPATNAM
Department of Physics

One Week Online FDP On Recent Advances On material Characterizations

<u>Certificate of Participation</u>

This is to certify that Dr.J.Ashok, Associate Professor of SRK Institute of Technology Enikepadu has participated in One Week FDP on "Recent Advances on material Characterizations" organized by Department of Physics, Krishna University, machilipatnam from 29.08.2022 to 03.09.2022.

Principal

Prof. YAVASN Maruthi

PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA-521 108.

Registrar

Dr. M Rami Reddy

SRK INSTITUTE OF TECHNOLOGY
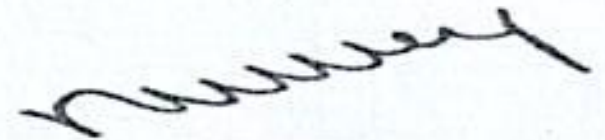Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada
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Accredited with NAAC 'A' grade

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. Dr. M. Veerabhadra rao

2. Designation : Professor

3. Department : MBA

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: ----------------------------

   A Study on Internet Banking in India popularity Trend

5. Date & Duration of the Program: ~~1000~~ Sept 2022.

6. Associating Professional Body / Agency: International Journal of SRFD.

7. Financial support particulars:

   i.   Registration Charges: 1000/-
   ii.   Travelling Allowances:
   iii.   Membership Fee   :
   iv.   Others (if any)   :

Date: 12/9/2022.

Signature of the Staff Member

1. Recommendations of the HOD: Before
2. Recommendations of the Principal:
3. Recommendations of the IQAC:

*Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 12/9/22

PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA-521 108

VOUCHER

No.

Date. 14/9/2022

SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c..

Paid to.... Dr. M Veerabhadra Rao...Cash/Cheque..... Cash....

the Sum of Rupees.... One thousand only..................................

Towards.... Research paper publication.................................

Prepared by

Approved by

Audited by

Receiver Signature

₹   1000/-

PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA-521 108.

A study on Internet Banking in India : Popularity Trends

*Dr. M. Veerabhadra Rao   ** B.V.S.S. Subba Rao

Abstract

In the 1990s, the banking sector in India saw greater emphasis being placed on technology and innovation. Banks began to use technology to provide better quality of services at greater speed. The Internet Banking is becoming one of the fastest growing technologies that is playing a significant role in the daily lives of human beings. Internet Banking and Mobile Banking made it convenient for customers to do their banking from geographically diverse places. Banks also sharpened their focus on rural markets and introduced a variety of services geared to the special needs of their rural customers. The Internet is slowly gaining popularity in India. The Internet Banking is changing the banking industry and is having the major effects on banking relationships. Internet Banking involves delivery of banking products and services. At present many of the banks around the world have web presence in form of ATMs, Internet Banking, Support services etc. In the world of banking, the development in information technology has an enormous effect on development of more flexible payment methods and more- user friendly banking services. Electronic Banking services are new and the development and diffusion of these technologies by financial institutions is expected to result in more efficient banking system.

Key words: Internet Banking, Support services, technology, innovation.
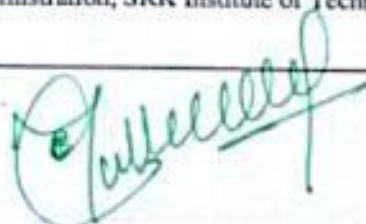
1.1 Introduction

Banking in India originated in the last decades of the 18th century. The oldest bank in existence in India is the State Bank of India a government-owned bank that traces its origins back to June 1806 and that is the largest commercial bank in the country. Central banking is the responsibility of the Reserve Bank of India 1935 formally took over these responsibilities from the then Imperial Bank of India, relegating it to commercial banking functions. After India's independence in 1947, the Reserve Bank was nationalized and given broader powers. In 1969 the government nationalized the 14 largest commercial banks; the government nationalized the six next largest in 1980. Currently, India has 96 scheduled commercial banks (SCBs) - 27 public sector banks (that is with the Government of India holding a stake), 31 private banks (these do not have government stake; they may be publicly listed and traded on stock exchanges) and 38 foreign banks. They have a combined network of over 53,000 branches and 17,000 ATMs. According to a report by ICRA Limited, a rating agency, the public sector banks hold over 75 percent of total assets of the banking industry, with the private and foreign banks holding 18.2% and 6.5% respectively.

*Professor, Dept. of Business Administration, SRK Institute of Technology, Enikepadu.
**Assistant Professor, Dept. of Business Administration, SRK Institute of Technology, Enikepadu.
Email: bvsssubbarao@gmail.com

SRK INSTITUTE OF TECHNOLOGY
Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada
(ISO 9001:2015 Certified Institution)
Accredited with NAAC 'A' grade

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. Mr. B.V.S.S. Subba Rao

2. Designation : Asst. Prof.

3. Department : M.B.A

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: ---

   A Study on Internet Banking in India: Popularity Trends

5. Date & Duration of the Program: Sep 2022

6. Associating Professional Body / Agency: J. J. S. R. E. D

7. Financial support particulars:

   i.   Registration Charges: 1000/-
   ii. Travelling Allowances:
   iii. Membership Fee   :
   iv. Others (if any)   :

Date: 12/09/2022

Signature of the Staff Member

1. Recommendations of the HOD:
2. Recommendations of the Principal:
3. Recommendations of the IQAC:

*Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 12/9/22

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SRK INSTITUTE OF TECHNOLOGY
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VOUCHER

No.

Date 14/09/2022

SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c ....

Paid to BVP Subbarao .... Cash/Cheque Cash ....

the Sum of Rupees One thousand only ....

Towards Research paper publication fee ....

Prepared by

Approved by

Audited by

B.V.S.S. Subbarao

Receiver Signature

₹ 1000/-

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SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA-521 108.

A study on Internet Banking in India : Popularity Trends

*Dr. M. Veerabhadra Rao   ** B.V.S.S. Subba Rao

Abstract

In the 1990s, the banking sector in India saw greater emphasis being placed on technology and innovation. Banks began to use technology to provide better quality of services at greater speed. The Internet Banking is becoming one of the fastest growing technologies that is playing a significant role in the daily lives of human beings. Internet Banking and Mobile Banking made it convenient for customers to do their banking from geographically diverse places. Banks also sharpened their focus on rural markets and introduced a variety of services geared to the special needs of their rural customers. The Internet is slowly gaining popularity in India. The Internet Banking is changing the banking industry and is having the major effects on banking relationships. Internet Banking involves delivery of banking products and services. At present many of the banks around the world have web presence in form of ATMs, Internet Banking, Support services etc. In the world of banking, the development in information technology has an enormous effect on development of more flexible payment methods and more- user friendly banking services. Electronic Banking services are new and the development and diffusion of these technologies by financial institutions is expected to result in more efficient banking system.

Key words: Internet Banking, Support services, technology, innovation.

1.1 Introduction

Banking in India originated in the last decades of the 18th century. The oldest bank in existence in India is the State Bank of India a government-owned bank that traces its origins back to June 1806 and that is the largest commercial bank in the country. Central banking is the responsibility of the Reserve Bank of India 1935 formally took over these responsibilities from the then Imperial Bank of India, relegating it to commercial banking functions. After India's independence in 1947, the Reserve Bank was nationalized and given broader powers. In 1969 the government nationalized the 14 largest commercial banks; the government nationalized the six next largest in 1980. Currently, India has 96 scheduled commercial banks (SCBs) - 27 public sector banks (that is with the Government of India holding a stake), 31 private banks (these do not have government stake; they may be publicly listed and traded on stock exchanges) and 38 foreign banks. They have a combined network of over 53,000 branches and 17,000 ATMs. According to a report by ICRA Limited, a rating agency, the public sector banks hold over 75 percent of total assets of the banking industry, with the private and foreign banks holding 18.2% and 6.5% respectively.

*Professor, Dept. of Business Administration, SRK Institute of Technology, Enikepadu.
**Assistant Professor, Dept. of Business Administration, SRK Institute of Technology, Enikepadu.
Email: bvsssubbarao@gmail.com

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Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada
(ISO 9001:2015 Certified Institution)
Accredited with NAAC 'A' grade

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. T.V. Naga Lakshmi

2. Designation : Associate Professor

3. Department : Science and Humanities.

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: Emerging Technologies In Chemical Engineering : From Theory, Experiments to Industry Applications.

5. Date & Duration of the Program: 22-08-2022 to 28-08-2022 & One week

6. Associating Professional Body / Agency:

7. Financial support particulars:

   i.   Registration Charges: 1500/-
   ii.   Travelling Allowances: 6000/-
   iii. Membership Fee   :
   iv.   Others (if any)   : 7500/-

Date: 18-08-2022

Signature of the Staff Member

1. Recommendations of the HOD:
2. Recommendations of the Principal:
3. Recommendations of the IQAC:

*Sanctioned / Not Sanctioned

Account Department
Accountant:
Date: 18/8/22

No.

SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c..

Paid to Dr. T.V. Nagalakshmi .... Cash/Cheque 5000/-

the Sum of Rupees Five Thousand Rupees Only

Towards Faculty development Programme.

Prepared by   Approved by   Audited by

₹ 5000/-

Dlakshi
Receiver Signature

Principal
SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA-521 108.

No.   Date 18|8|22

SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c...

Paid to Dr.T.V. Naga Lakshmi .... Cash/Cheque 5000/-

the Sum of Rupees five Thousand Rupes only/-

Towards .... FDP

Prepared by   Approved by   Auditad by

₹ 5000/-   lakshi
                                          Receiver Signature

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ENIKEPADU, VIJAYAWADA-521 108.

VOUCHER   Date. 18|8/22

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ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

No.

Name of A/c...

Paid to Dr. T. V. Naga Lakshmi .... Cash/Cheque 5000/-

the Sum of Rupees ...... five Thousand Rupees only /-

Towards .... FDP

Prepared by   Approved by   Audited by

₹ 5000/-   Receiver Signature

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SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, V:-

Ono Week Training Program on

Emerging Technologies in Chemical Engineering : From Theory, Experiments to Industry Applications

Under DST-STUTI programme of Indian Institute of Technology (ISM) Dhanbad - 826004
Funded by : Department of Science and Technology (DST), Government of India

<u>Organised by :</u>

Department of Chemical Engineering, National Institute of Technology Durgapur, Durgapur - 713209

22nd August to 28th August 2022

Azadi Ka
Amrit Mahotsav

Certificate of Participation

Azadi Ka
Amrit Mahotsav
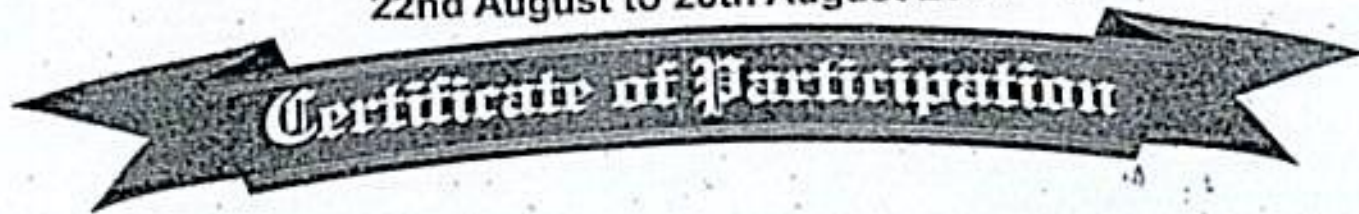
This is to certify that Dr./Mr./Ms. ....T. V. Nagalakshmi...............................

of...SRK. Institute of Technology..

attended the One week Training Program on "Emerging Technologies in Chemical Engineering : From Theory, Experiments to Industry Applications" from 22nd August to 28th August 2022, Organised by the Department of Chemical Engineering, National Institute of Technology Durgapur, Durgapur - 713209 under the aegis of DST-STUTI programme of Indian Institute of Technology (ISM) Dhanbad - 826004, Funded by : Department of Science and Technology (DST), Government of India.

Prof. Bapan Mal
Co-ordinator : DST-STUTI Project
IIT(ISM) Dhanbad

Prof. Ravi K. Gangwar
Co-Coordinator : DST-STUTI Project
IIT(ISM) Dhanbad

PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA

Prof. Bimal Das
Program Coordinator
NIT Durgapur

Prof. Bikash Kumar Mondal
Program Coordinator
NIT Durgapur
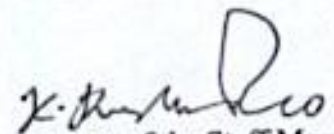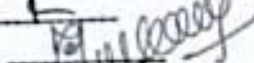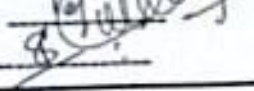
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Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada
(ISO 9001:2015 Certified Institution)
Accredited with NAAC 'A' grade

Financial Support Request Letter

1. Name of the Staff Member   : Dr./Mr./Ms. ✓ K. krishna Rao

2. Designation   : Professor

3. Department   : Science and Humanities

4. Conference / Publication / Membership Fee / Workshop / FDP ✓ / Seminar / Training / Industrial Visit / Tours With details: National Level Faculty Development Programme on "National Educational Policy-2020 (NEP) An Overview".

5. Date & Duration of the Program: 27-08-2022 & One day

6. Associating Professional Body / Agency: IQAC, SOMS Mahila kalasala, Vijayawada

7. Financial support particulars:

    i.   Registration Charges: 1500/-
    ii.   Travelling Allowances:
    iii.   Membership Fee   :
    iv.   Others (if any)   :

Signature of the Staff Member

Date: 24-08-22

1. Recommendations of the HOD:
2. Recommendations of the Principal:
3. Recommendations of the IQAC: •Sanctioned / Not Sanctioned

Account Department.
Accountant;
Date: 24/8/22

No.   VOUCHER   Date 24-08-22

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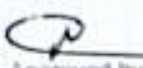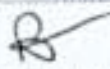
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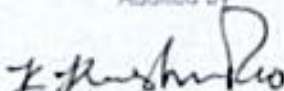
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CERTIFICATE OF PARTICIPATION

This is to certify that Dr/Smt/Sri. Dr. K. Krishna Rao

from SRKIT

has participated in a National Level Faculty Development Programme (FDP) on

"National Education Policy – 2020 (NEP) An Overview"

organized by Internal Quality Assurance Cell (IQAC) of

Sri Durga Malleswara Siddhartha Mahila Kalasala, Vijayawada on 27th August, 2022.

Dr.K.N. Vara Lakshmi
Co-Ordinator- IQAC

Dr.T. Vijaya Lakshmi
Director

Dr.S.Kalpana
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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. ___A Krishna Priya___

2. Designation : ___Assistant professor___

3. Department : ___Civil___

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / webinar
Industrial Visit / Tours With details: ___Introduction to HYSD bars___
___and understand Good and bad construction___
practices

5. Date & Duration of the Program: 26/8/22

6. Associating Professional Body / Agency: Gopalan college of Engg &
management, Bangalore

7. Financial support particulars:

    i.   Registration Charges: 2000/-
    ii.   Travelling Allowances:
    iii. Membership Fee   :
    iv.   Others (if any)   :

Date: 30/8/2022   Signature of the Staff Member

1. Recommendations of the HOD: ___
2. Recommendations of the Principal: ___
3. Recommendations of the IQAC: ___   *Sanctioned / Not Sanctioned

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Name of A/c...... Webinar

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the Sum of Rupees...... Two thousand only......

Towards...... webinar on Introduction to HYSD Bars and understand

Good and Bad Construction Practices: 26/08/22......

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This is to certify that Dr. / Er. / Mr. / Ms. **ANUMOLU KRISHNA PRIYA**

has participated in Technical Webinar on "INTRODUCTION TO HYSD BARS AND UNDERSTAND GOOD AND BAD CONSTRUCTION PRACTICES" by Er. Anirudha Shah AGM – TECHNICAL SK STEEL TECH, India, organized by Department of Civil Engineering in association with ICI-Student Chapter on On 26th August 2022.

Er. H R Girish
Chairman, ICI-BC

Er Suhas R
Secretary, ICI-BC

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Principal

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1. Name of the Staff Member : Dr./Mr./Ms. _P. Kishore Kumar_

2. Designation : _Associate professor_

3. Department : _ME_

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: _Effect of process parameters on Microstructure & Mechanical property of Al 11.5% Si-1%Mg/biomoda Sic Composite_

5. Date & Duration of the Program: _02/08/22_

6. Associating Professional Body / Agency: _Springer_

7. Financial support particulars:

   i.   Registration Charges: _1500/-_
   ii. Travelling Allowances:
   iii. Membership Fee   :
   iv. Others (if any)   :

Date: _8/8/22_

Signature of the Staff Member

1. Recommendations of the HOD: ⎯⎯⎯
2. Recommendations of the Principal: ⎯⎯⎯
3. Recommendations of the IQAC: ⎯⎯⎯   *Sanctioned / Not Sanctioned

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Effect of Process Parameters on Microstructure and Mechanical Properties of Al–11.5%Si–1%Mg/bimodal SiC$_{(m-n)}$composites

Silicon

Aims and scope

Submit manuscript

G. Arumugam ✉, S. Saravanan, S. Mohamed Iqbal & P. Kishorekumar

Abstract

Bimodal size SiC particles reinforced Al–Si alloy composites were fabricated by powder metallurgy route. Three different bimodal reinforcements with various volume fractions of micro and nano sized SiC particles were dispersed in Al–11.5%Si–1%Mg matrix by mechanical alloying for 10 h. The composite powders were hot pressed at 580 °C, 600 °C and 620 °C in a vacuum atmosphere with different cooling rates (10 °C/min, 15 °C/min and 20 °C/min). The microstructural changes of bimodal SiC$_{(m-n)}$ in the matrix material were carried out using OM, SEM and TEM with energy dispersive spectroscopy (EDS). The sample experiments were implemented based on Taguchi L$_9$ OA with three parameters of bimodal reinforcement, sintering temperature and rate of cooling respectively. The measurement of mechanical specific that hardness and

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. J. Ashok ✓

2. Designation : Associate Professor

3. Department : Science and Humanities

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: Carcinogenic chromium (VI) Sensing ✓ Using Transducing Characteristics of FBG & Physical Swelling of Hydrogel.

5. Date & Duration of the Program: 5-08-2022,

6. Associating Professional Body / Agency: Sensing and Imaging

7. Financial support particulars:

   i. Registration Charges: 15000/-
   ii. Travelling Allowances:
   iii. Membership Fee :
   iv. Others (if any) :

J. Ashok
Signature of the Staff Member

Date: 03-08-2022

1. Recommendations of the HOD:
2. Recommendations of the Principal:
3. Recommendations of the IQAC:

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Carcinogenic Chromium (VI) Sensing Using Transducing Characteristics of Fiber Bragg Grating and Physical Swelling of Hydrogel

B. M. Pratima[1] · P. V. N. Kishore[2,3] · J. Ashok[4] · M. Satyanarayana[5] ·
P. Krishna Reddy[6] · N. Rajeswara Rao[7] · D. Vijaya Lakshmi[8]

Abstract

A Chemo-mechanical-optical sensing approach for the detection of hexagonal chromium (Cr^{6+}) metal ion is demonstrated. A new sensor head is designed by epoxying fiber Bragg grating (FBG) on a thin silicon membrane beneath which a Chromium (VI) responsive hydrogel is embedded. When the gel is exposed to chromium spiked solutions, it suffers a volume change due to its stimulus responsive property and deforms a silicon membrane which in turn causes a wavelength peak shift of FBG. Hydrogel synthesized from the blends of (3-Acrylamidopropyl)—trimethylammonium chloride is used for the purpose. The relation between FBG peak shifts with change in volume of hydrogel due to it swelling is experimentally established. The FBG wavelength peak shift is directly correlated with the concentration of the Cr (VI) metal ion. The estimated sensitivity and resolution of the sensor are 0.1 nm/ppb with a limit of detection of the sensor is 0.75 ppb. The sensor has demonstrated good sensitivity, selectivity, and repeatability.

Keywords Fiber Bragg grating (FBG) · Cr (VI) sensor · Hydrogels · Stimulus response · Physical swelling

1 Introduction

Industrial revolution has resulted in elevated water contamination with heavy metal ions which is a major health threat both to humans and aquatic animals. Heavy metal ions are one of the major causes of water toxicity and carcinogenicity but their contribution towards toxicity is more [1]. Disorders of central nervous system, kidneys,

✉ P. V. N. Kishore
   jidankishore@gmail.com

Extended author information available on the last page of the article

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1. Name of the Staff Member : Dr./Mr./Ms. Dr. M. Veerabhadravarao

2. Designation : Professor

3. Department : MBA

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details:

Insights into Color Psychology in Marketing Advertising.

5. Date & Duration of the Program: August 2022

6. Associating Professional Body / Agency: International Journal for scientific Research & Development

7. Financial support particulars:

   i.   Registration Charges: 1000/-
   ii.   Travelling Allowances:
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2. Recommendations of the Principal:
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Insights into Color Psychology in Marketing, Advertising & Promotion

Dr. M. Veerabhadra Rao[1] B.V.S.S. Subba Rao[2]
[1]Professor [2]Assistant Professor
[1]Department of MBA [2]Department of MBA
[1]SRK Institute of Technology, Vijayawada [2]SRK Institute of Technology, Vijayawada.

ABSTRACT

Colour Psychology is the study of colour as a determinant of human behavior. A wide range of factors can influence the relationship between environment and colour, including culture, religion, natural environment, gender, race and genetics. It is very important to study the psychology of colour manipulation and color use of prior Promoting a business through marketing and advertising campaign. This is because of a colour can represent many different energies, emotions, and feelings. Colour is foundational to the visual identity of your brand in all it expressions and excellence-logs, packaging, products, environments, and all forms of marketing communication.

Keywords: Psychology of colour, marketing, advertising, brand, consumer, culture.

INTRODUCTION

The most successful and prominent brands in the world are defined by their colours, as a marketer, it's important to utilize colours effectively and efficiently consider what they say about their business. colour increase brand recognition and brand recognition directly links to consumer confidence to buy the product.

When marketing new products it is crucial to consider that consumers place visual appearance. Colours are an integral part of brand strategy. The colour choosen to represent your brand can subconsciously communicate a variety of messages, and it is proven through market research that colour directly impacts the consumer.

THE ROLE OF COLOUR IN MARKETING

Colour is a form of nonverbal communication and an important part of our daily lives. The understandings of emotion that evoke have been cultivated since birth and vary depending on age, geographic, location, and gender (examples: blue for boys, pink for girls). Applying colour theory is one of the most powerful methods of creating customer appeal.

Studies have been shown that colour:

- Increase brand recognition by up to 80%
- Improves readerships as much as 40%
- Increases comprehension by 73%
- Can be up to 85% of the reason people decide to buy

IMPORTANCE OF COLOUR IN MARKETING

When marketing new products it is crucial to consider that consumers place visual appearance. Colour impacts moods, sales and guarantee of coming back to a particular brand. When creating your own brands, it is important to note that there is an impact of colour have a creation and sales.

The use of colour in the marketing of your business, advertising & promotion your product, can send their positive or negative messages, creating a good or bad perception of your product. Colour also has a functional impact on readability, eye-strain, and ability to attract attention. This is important in choosing colours for website pages, prints ads and other marketing media. Colour is instrumental in attracting consumer attention to media advertisements.

- The most visible colour is yellow
- Hard colours (red, orange, and yellow) are more visible and tend to make objects look larger and closer. They are easier to focus.
- Soft colours (violet, blue, and green) are less visible and tend to make objects look smaller and further away.

With relation to marketing, colour psychology has become an important part of the visual appearance and brand recognition of companies and products. Colour is perceived differently by everyone and through the use of different mediums.

Colours are commonly perceived to have certain meaning. The chart below gives perceived meanings of different colours. The F represent Functional (fulfils a need or solves a problem) and the S represents Sensory-social (conveys attitudes, status, or social approval).

It is imperative that the colour being used in your marketing reflects the products promoted your corporate branding, influences to your target

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1. Name of the Staff Member : Dr./Mr./Ms. Mr. B.V.S.S. Subba Rao

2. Designation : Asst. Prof.

3. Department : M.B.A

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: ----------------------------------

   Insights into colour psychology in marketing, advertising and promotio

5. Date & Duration of the Program: August 2022

6. Associating Professional Body / Agency: I. J. S. R. D

7. Financial support particulars:

   i.   Registration Charges: 1000|—
   ii. Travelling Allowances:
   iii. Membership Fee   :
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Date: 18|08|2022

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1. Recommendations of the HOD: B. Sreenu
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Insights into Color Psychology in Marketing, Advertising & Promotion

Dr. M. Veerabhadra Rao[1] B.V.S.S. Subba Rao[2]
[1]Professor [2]Assistant Professor
[1]Department of MBA [2]Department of MBA
[1]SRK Institute of Technology, Vijayawada [2]SRK Institute of Technology, Vijayawada.

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Keywords: Psychology of colour, marketing, advertising, brand, consumer, culture.

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The use of colour in the marketing of your business, advertising & promotion your product, can send their positive or negative messages, creating a good or bad perception of your product. Colour also has a functional impact on readability, eye-strain, and ability to attract attention. This is important in choosing colours for website pages, prints ads and other marketing media. Colour is instrumental in attracting consumer attention to media advertisements.

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Colours are commonly perceived to have certain meaning. The chart below gives perceived meanings of different colours. The F represent Functional (fulfils a need or solves a problem) and the S represents Sensory-social (conveys attitudes, status, or social approval).

It is imperative that the colour being used in your marketing reflects the products promoted your corporate branding, influences to your target

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1. Name of the Staff Member   : Dr./Mr./Ms. B. Krishnaiah

2. Designation   : Associate Professor & HoD

3. Department   : MBA

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: A Study on Business Analytics: A Business Enabler.

5. Date & Duration of the Program: August -2022

6. Associating Professional Body / Agency: International Journal of Creative Research Thoughts (IJCRT) ISSN 2320-2882

7. Financial support particulars:

   i.   Registration Charges: 2000/-
   ii.   Travelling Allowances:
   iii. Membership Fee   :
   iv.   Others (if any)   :

Date: 31/8/2022   Signature of the Staff Member

1. Recommendations of the HOD: B. Krishnaiah
2. Recommendations of the Principal:
3. Recommendations of the IQAC: *Sanctioned / Not Sanctioned

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A STUDY ON BUSINESS ANALYTICS: A BUSINESS ENABLER

¹Dr. T. Rama Devi　　　　²Dr. B. Krishnaiah　　　　³Dr. N. Suresh Babu

¹Professor & Head,²Assoc. Professor & Head,³Assistant Professor

²Department of Business Administration,

²SRK Institute of Technology, Enikepadu, Vijayawada, India.

Abstract: Business Analytics has come out as a potential business enabler in both public as well as private sector and is one of the rapid growing fields. By implementing Business Analytics inventiveness in their organisations, decision makers can integrate different data sources, predict trends, improve performance, key performance indicators, identify business opportunities, and make superior and informed decisions. The importance of this study is based on two aspects that is one is it provides a working definition, background, and a review of Business Analytics (BA), or Business Intelligence (BI), or Big data (BD) theory and practice. Second one is it discusses about current trend of Business Analytics, Business intelligence and Big data.

Index Terms - **Business Analytics, Business intelligence, Big data, Decision making and Trend analysis.**

I. INTRODUCTION

All over different public and private sector companies illustrate and maintain vast amount of data on their customers, product and services provided by the companies. To leverage the data stored and maintained in various digital platforms like data base, data warehouse, and to convert the data into actionable insights a new field called Business Analytics, or big data, or Business intelligence has emerged in recent periods. Business Analytics has evolved and become a part of each and every business decision making process, and it has the potential to transform business as it empowers decision makers with data and supports them to make strategic, operational as well as tactical decisions.

II. Importance of the study:

Business Analytics gives decision makers the power to integrate multiple data sources and discover more insights in them, thus enabling them to gain a holistic view of their　　　　business and customers improve operational efficiency, move towards a data driven decision making environment, and delivery business vital solutions. Business analytics also helps to companies exploit on the value of historical and real time data by harness the power of statistical and mathematical models. By using such models, managers can monitor key metrics and operational data and measure and manage corporate performance. Decision makers can integrate disparate data sources. Predict trends, improve performance indicators by implement Business analytics initiatives in their firms, to make better and informed decisions. Hence it is important to study the working definition, background and review of Business analytics and the current trend of Business analytics.

III. Objectives of the study:

1) To understand the concept & importance of Business Analytics or Business Intelligence or Big Data.
2) To identify the Buzzword from usage by the authors in the research papers through analysis.

IV. Review of Literature:

Business Analytics (BA) may be defined as "a broad category of applications, technologies, and processes for gathering, storing, accessing, and analyzing data to help business users make better decisions" (Watson, 2009). Vendors and academics interchangeably use "Business Analytics (BA)", "Business Intelligence (BI)" and "Big Data (BD)" to refer to similar topics. For instance, the term "business intelligence" is used by the information technology community, whereas "business analytics" is preferred by the business community (Sircar, 2009). In this study however, the term "Business Analytics" is used to be consistent with the leading vendors and academia.

The growing use of information technology (IT) in the business world has led to the development of large and complex datasets for various organizational functions. Understanding their businesses and making decisions based on the datasets has become an important challenge for organizations. The IT industry refers to the term "Big Data" to indicate the complexity and size of data sets. Traditional database applications do not have the capabilities to analyze such big data and address the decision-making needs of organizations. BA is the current solution for analyzing big data by using advanced

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. ...A.V.P. Sarvari......

2. Designation : ..Assistant. Professor.........

3. Department : ..ECE............................

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: ---

   Microsoft Power BI Data Analyst Associate.............

5. Date & Duration of the Program: 25.7.2022 to 29.7.2022 [5-days]

6. Associating Professional Body / Agency: ICT Academy.

7. Financial support particulars:

   i.   Registration Charges: 500/-.
   ii.   Travelling Allowances:
   iii. Membership Fee   :
   iv.   Others (if any)   :

Date: 30|7|22   Signature of the Staff Member

1. Recommendations of the HOD: -----------
2. Recommendations of the Principal: ------------
3. Recommendations of the IQAC: -----------   *Sanctioned / Not Sanctioned

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Accountant: B. AN

Date: 30|7|2022 .

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Date 30/7/2022

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the Sum of Rupees......Five hundred Rupees only.

Towards....FDP on Microsoft Power BI Data Analyst

.............Associate.

Prepared by

Approved by
Bm→

Audited by

₹ 500/-

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ICTACADEMY

CERTIFICATE OF PARTICIPATION

C.No: 022-203 182

Date: 29 Jul 2022

A.V.P.SARVARI
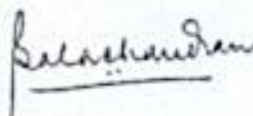
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has participated in 5 Day Faculty Development Program on

Microsoft Power BI Data Analyst Associate

conducted by ICT Academy on 25 Jul 2022 to 29 Jul 2022 at

Parvathaneni Brahmayya Siddhartha College of Arts & Science

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Hari Balachandran
Chief Executive Officer, ICT Academy

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. Thati Venkata M. Lakshmi

2. Designation : Asst. professor

3. Department : EEE

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : --

   Microsoft Power BI Data -Analyst Associate

5. Date & Duration of the Program : 25 Jul 2022 to 29 Jul 2022

6. Associating Professional Body / Agency : ICT Academy

7. Financial support particulars : 500/-

   i.   Registration Charges :
   ii.   Travelling Allowances :
   iii. Membership Fee   :
   iv.   Others (if any)   :

Date: 22/7/22

Mahalakmi
Signature of the Staff Member

1. Recommendations of the HOD : ----------
2. Recommendations of the Principal : ----------
3. Recommendations of the IQAC : S. SriGoum   *Sanctioned / Not Sanctioned

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Accountant: B. Q....

Date: 28/7/22

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the Sum of Rupees......Five Hundred Rupees only.........

Towards......faculty Development program.........

Prepared by

Approved by
|3m-.

Audited by

₹ 500/-

Receiver Signature

ICTACADEMY'

CERTIFICATE OF PARTICIPATION

C.No: 022-203178

Date: 29 Jul 2022

THATI VENKATA M LAKSHMI

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Chief Executive Officer, ICT Academy

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. K. Vamsi Anuswetha.

2. Designation : Assistant Professor.

3. Department : ECE

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: Five day online FDP on

   FPGA Implimentation of Digital circuits using Xilinx Vivado

5. Date & Duration of the Program: 01.7.2022 to 05.07.2022 [5 days]

6. Associating Professional Body / Agency: Tirumala Engineering College.

7. Financial support particulars:

   i.   Registration Charges: 100/-
   ii.   Travelling Allowances:
   iii. Membership Fee   :
   iv.   Others (if any)   :

                                                          KV.Anuswetha
Date: 6|7|22   Signature of the Staff Member

1. Recommendations of the HOD: ----
2. Recommendations of the Principal: ----
3. Recommendations of the IQAC: ----   *Sanctioned / Not Sanctioned

Account Department:

Accountant: B. Bhi

Date: 8|7|22

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the Sum of Rupees....Hundred Rupees only

Towards....EDP- on FPGA Implementation of Digital Circuits using Xilinx Vivada.

Prepared by

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Jonnalagadda, Narasaraopet-522601

Five Day LiVE Online Faculty Development Program

On

FPGA implementation of Digital circuits using XILINX VIVADO

Certificate of Participation

This is to certify that Mr./Ms./Mrs./Dr..... K. VAMSI ANU SWETHA ....

has participated in the five day LIVE ONLINE FACULTY DEVELOPMENT PROGRAM on

"FPGA IMPLEMENTATION OF DIGITAL CIRCUITS USING XILINX VIVADO" during 01-07-2022 to

05-07-2022.

Mr. T. Jagadeesh
Convener

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Dr. Y.V. Narayana
Principal

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1. Name of the Staff Member : Dr./Mr./Ms. U. Aparna Devi

2. Designation : Assistant Professor

3. Department : ECE

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: Five day Lux online FDP on

   FPGA Implementation of Digital Circuits using Xilinx Vivado

5. Date & Duration of the Program: 01-7-2022 to 5-7-2022 [5-days]

6. Associating Professional Body / Agency: Tirumala Engineering College Narasaraopet.

7. Financial support particulars:

   i. Registration Charges: 100/—
   ii. Travelling Allowances:
   iii. Membership Fee :
   iv. Others (if any) :

Date: 6|7|22   Signature of the Staff Member

1. Recommendations of the HOD:
2. Recommendations of the Principal:
3. Recommendations of the IQAC: Sanctioned / Not Sanctioned

Account Department:

Accountant: B. Alu

Date: 8|7|22.

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Paid to.....Ms. V. Aparna Devi....Cash/Cheque.....Cash

the Sum of Rupees.....Hundred Rupees only

Towards.....FDP on FPGA Implementation of Digital Circuits Using Xilinx Vivado

Prepared by

Approved by

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On

FPGA implementation of Digital circuits using XILINX VIVADO

Certificate of Participation

This is to certify that Mr./Ms./Mrs./Dr......Uppalapati Aparna Devi.............................

has participated in the five day LIVE ONLINE FACULTY DEVELOPMENT PROGRAM on

"FPGA IMPLEMENTATION OF DIGITAL CIRCUITS USING XILINX VIVADO" during 01-07-2022 to

05-07-2022.

Mr. T. Jagadeesh
Convener

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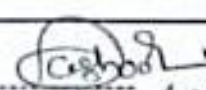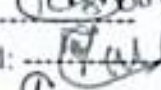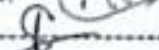
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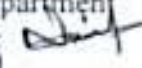
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1. Name of the Staff Member : Dr./Mr./Ms. _Paladugu Sachasitha_

2. Designation _Asst-Prof_

3. Department : _IT_

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   ARTIFICIAL INTELLIGENCE & DATA ANALYTICS

5. Date & Duration of the Program: _6th to 10th June 2022_

6. Associating Professional Body / Agency: _VITW_

7. Financial support particulars:

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   ii. Travelling Allowances:
   iii. Membership Fee   :
   iv. Others (if any)   : _500_

Date: _14/6/22_   _Sachasitha P_
                                        Signature of the Staff Member

---

1. Recommendations of the HOD: ----
2. Recommendations of the Principal:
3. Recommendations of the IQAC: ----   *Sanctioned / Not Sanctioned

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Date: _14/6/22_

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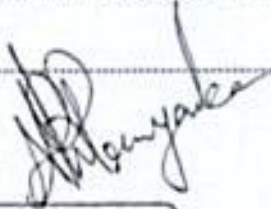
Name of A/c...

Paid to P.Sai charitha   Cash/Cheque   500/-

the Sum of Rupees five Hundred Rupees only/-

Towards Artificial Intelligence & Data Analytics

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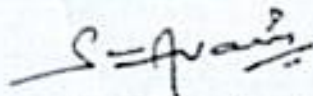
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Enikepadu, VIJAYAWADA-521 108. (A.P.) Phone: 0866-2844444, e-mail : vijayatechfw@gmail.com web : www.vitw.in
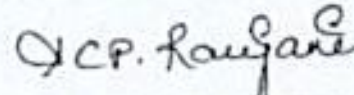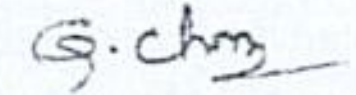
CERTIFICATE

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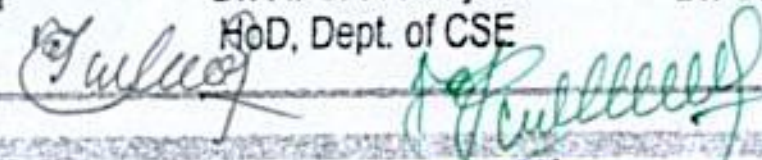
Dr./Mr./Ms. _____Paladugu. Sri charitha_____

of _____SRKIT_____

for participating in one week Faculty Development Programme on "ARTIFICIAL INTELLIGENCE & DATA ANALYTICS" organized by the Department of Computer Science and Engineering, VIJAYA INSTITUTE OF TECHNOLOGY FOR WOMEN, Vijayawada during 6th to 11th June 2022.

Dr. V. Suma Avani
Coordinator

Dr. A. C. P. Ranjani
HoD, Dept. of CSE

Dr. G. Chenchamma
Principal

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Financial Support Request Letter

1. Name of the Staff Member   : Dr./Mr./Ms. ...G.Sailakshmi...

2. Designation   : ...Asst Professor...

3. Department   : ...I.T...

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: Enhancing Security of data in cloud storage using decentralized blockchain.

5. Date & Duration of the Program: June 2022

6. Associating Professional Body / Agency: IJAEMA

7. Financial support particulars:

    i.   Registration Charges: 2,000/-
    ii.   Travelling Allowances:
    iii. Membership Fee   :
    iv.   Others (if any)   :

Date: 2|6|22   Signature of the Staff Member

1. Recommendations of the HOD: ...
2. Recommendations of the Principal: ...
3. Recommendations of the IQAC: ...   *Sanctioned / Not Sanctioned

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Accountant:
Date: 2|6|22

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<u>VOUCHER</u>   Date 21/6/22

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Name of A/c..

Paid to. G. Sai lakshmi .... Cash/Cheque. 2000/-.............................

the Sum of Rupees Two ....thousand ....Rupees ....only/c...................

Towards paper publication (Enhancing security of data

in cloud storage decentraiged block clain)

Prepared by ....   Approved by ....   Audited by

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ENHANCING SECURITY OF DATA IN CLOUD STORAGE USING DECENTRALIZED BLOCKCHAIN

Mrs.G.Srilakshmi, Assistant professor,Mtech, Department of IT, sree.gpk@gmail.com

B.Mouryasri, B.tech, Department of IT, mowryasribalusu@gmail.com

P.Bhanu Prakash, B.Tech,Department of IT, pbhanupp@gmail.com

M.Sujana,B.Tech, Department of IT, sujanamerugumalli63@gmail.com

A.Rajesh,B.tech, Department of IT, rajesh.avvari1234@gmail.com

ABSTRACT: To maintain the privacy and security of data various algorithms are used. The objective of every system is to achieve confidentiality, integrity, availability (CIA). However, the existing centralized cloud storage lacks to provide these CIA properties. So, to enhance the security of data and storing techniques, decentralized cloud storage is used along with block chain technology. It effectively helps to protect data from tampering or deleting a part of data. The data stored in block chain is linked to each other by a chain of blocks. Each block has its hash value, which is stored in next block. After performing the encryption method data is converted into unreadable form, to get the original message back intended user must have key which is used while encryption process. Thus it reduces the chances of data altering. For this purpose, SHA-512 Hashing algorithm is used. Hashing algorithm is used in many aspects, where the security of data is required such as message digest, password verification, and digital certificates and in block chain. By the combination of these methods and algorithms, data becomes more secure and reliable. However, with the help of various algorithms, the security of the data can be enhanced. Also, Advance Encryption Standard (AES) is used to encrypt and decrypt the data due to the significant features of this algorithm.

Keywords—SHA-512 Hashing algorithm

I. INTRODUCTION

A blockchain is a distributed database that is shared among the nodes of a computer network. As a database, a blockchain stores information electronically in digital format. Blockchains are best known for their crucial role in cryptocurrency systems, such as Bitcoin, for maintaining a secure and decentralized record of transactions. The innovation with a blockchain is that it guarantees the fidelity and security of a record of data and generates trust without the need for a trusted third party. One key difference between a typical database and a blockchain is how the data is structured. A blockchain collects information together in groups, known as blocks,that hold sets of information. Blocks have certain storage capacities and, when filled, are closed and linked to the previously filled block, forming a chain of data known as the blockchain. All new information that follows that freshly added block is compiled into a newly formed block that will then also be added to the chain once filled.Blockchain is a shared, immutable ledger
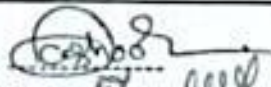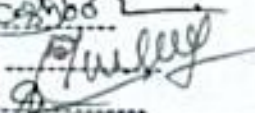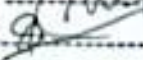
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1. Name of the Staff Member : Dr./Mr./Ms. ...Gn:D:k:kishore...............

2. Designation : ....Associate Professor...............

3. Department : ....IT...

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: ..Pothole... & ..Speed..breaker.. detection....using..deep..Learning...techniques:.....

5. Date & Duration of the Program: June 2022

6. Associating Professional Body / Agency: IJAEMA

7. Financial support particulars:

   i.   Registration Charges: 2000/-
   ii.   Travelling Allowances:
   iii. Membership Fee   :
   iv.   Others (if any)   :

Date: 2/6/22

Signature of the Staff Member

1. Recommendations of the HOD:
2. Recommendations of the Principal:
3. Recommendations of the IQAC:

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the Sum of Rupees two thousand Rupees..............

Towards paper publication (Pothole & speed breaker

detection using deep learning techniques
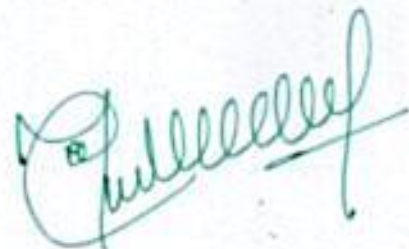
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POTHOLE AND SPEED BREAKER DETECTION USING DEEP LEARNING TECHNIQUES

Mr. G. D. K. Kishore, Assistant Professor, Department of IT, kishore.galla1@gmail.com

Y. Lakshmi Chandana, BTech, Department of IT, ylc.chandu@gmail.com

B.Prathyusha, BTech, Department of IT, prathyushaboyapati29@gmail.com

M.Monish,B.Tech,Department of IT,monish.medandrao2001@gmail.com

T.Rajasekhar reddy,Department of IT,rajasekharreddy11321@gmail.com

Abstract— As the world is modernizing in each and every aspect on a day to day basis and getting prosperous, so the people are. By this growth in one's individual life in the society is getting on better living standards, under which personal vehicle is emerging as a basic need for everyone to go about in daily life, so that number of vehicles is increasing but road conditions are of mostly the same state or say even the worse keeping all this scenario in the mind we have designed a model to detect and predict the potholes and different anomalies present in the road using different suitable algorithms of machine learning and deep learning. For the execution of the project first, we collected the different road image samples and applied various computer vision operations such as preprocessing steps (different blur, smoothing), morphological operations, canny edge detection and decision tree to detect the pothole. After we have the road images with potholes detected, we made a dataset out of it extracting feature and giving it to the deep neural network (DNN) to process further, and it predicts the potholes using linear regression at the end of the process.

Keywords—Computer vision, Decision tree, Supervised Learning, Linear regression.

I. INTRODUCTION

In this modern era of smart cities smart Technologies and so many Technologies like IOT, machine learning, artificial intelligence and there are many more but still I see there is no as such methods of detection and prevention of potholes another kind of anomaly on the roads. We are growing as one of the fastest country in many sectors and automobile is one of them, people are buying insane number automobiles still we don't care about roads condition and that is where we need to understand that taking care of road condition is equal important as much as growing of automobile sector. We are facing heavy amount of losses of money, human life many more things due to this potholes anomalies present on the roads [1, 2]. Municipalities do their jobs of maintaining road's condition as lame as possible.

Like for example BMC Mumbai have potholes very bad Road conditions in their backyards only. So now you can see the level of ignorance and inefficiency towards maintaining road condition [3]. Now here only municipalities like BMC and DDA are not solely responsible for these irregularities present on the roads [4, 5]. It is more of that we don't have an efficient solution for providing the pothole location rampant in a particular area that comes under municipality because once municipality have the data, it can be used to analyze the area giving a more efficient solution. Now the question comes that to collect the data that too efficiently. What municipality body

will do that they will be appointing a team who will go for the survey of the roads coming under that particular municipality area? That team will gather data of potholes and report it the office [6]. But go like this it will take years to maintain road condition of a particular area. Proposed model will be detecting potholes and reporting them to the concern authority and further this will also predict them using machine learning to get a better In this modern era of smart cities smart Technologies and so many Technologies like IOT, machine learning, artificial intelligence and there are many more but still I see there is no as such methods of detection and prevention of potholes another kind of anomaly on our roads [7]. F are growing as one of the fastest country in many sectors and automobile is one of them, people are buying insane number automobiles still we don't care about roads condition and that is where we need to understand that taking care of road condition is equal important as much as growing of automobile sector [8, 9]. We are facing heavy amount of losses of money, human life many more things due to this potholes anomalies present on roads. Municipalities do their jobs of maintaining road's condition as lame as possible. Like for example BMC Mumbai have potholes very bad Road conditions in their backyards only [10]. So now you can see the level of ignorance and inefficiency towards maintaining road condition. Now here only municipalities like BMC and DDA are not solely responsible for these irregularities present on the roads. It is more of that we don't have an efficient solution for providing the pothole location rampant in a particular area that comes under municipality because once municipality have the data, it can be used to analyze the area giving a more efficient solution [11, 12]. Now the question comes that to collect the data that too efficiently. What municipality body will do that they will be appointing a team who will go for the survey of the roads coming under that particular municipality area? That team will gather data of potholes and report it the office. But go like this it will take years to maintain road condition of a particular area [13]. In my proposed model we will be detecting potholes and reporting them to the concern authority and further we will also predict efficient solution for the problem.

II. RELATED WORK

This model a uses a simple and convenient smart phone application to detect and make a dataset for future usage and to report to the concerned authority, using GPS to locate it on map in the database [14]. The application uses the gyroscope and accelerometer already existed in the phone by the manufacturing company to get the right coordinate location of

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1. Name of the Staff Member : Dr./Mr./Ms. ......G. Srilakshmi.............

2. Designation : ......Asst. Professor.............

3. Department : ......IT.............

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: --

Railway track crack detection using deep learning mod

5. Date & Duration of the Program: 06 /June /2022

6. Associating Professional Body / Agency: JES

7. Financial support particulars:

    i.   Registration Charges: 2,000/-
    ii.   Travelling Allowances:
    iii. Membership Fee   :
    iv. Others (if any)   :

Date: 9|6|22   Signature of the Staff Member

1. Recommendations of the HOD: ----
2. Recommendations of the Principal: ----
3. Recommendations of the IQAC: ----   *Sanctioned / Not Sanctioned

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Date: 9|6|22

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Name of A/c ....

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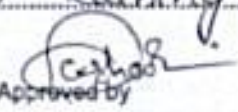
Towards paper publication (Railway track crack

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RAILWAY TRACK CRACK DETECTION USING DEEP LEARNING MODELS

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ABSTRACT: The detection of defects or cracks in rail track plays an important role in railway management, which prevents train accidents in both summer and rainy seasons. During summer, the cracks are formed on the track which slips the train wheel. In rainy environment, the rail tracks are affected by corrosion which also produced cracks on it. Methods: In present method, the cracks or defects are detected Echo image display device or semi conduction magnetism sensor devices which consumes more time. The proposed method enhances the track image using deep learning models to features extracted from the enhanced rail track image. These extracted features are trained and classified using neural network classifier which classifies the rail track image into either cracked or non-cracked image. The novelty of this work is to use soft computing approach for the detection of cracks in rail tracks. This methodology is trained by several crack images which are obtained from different environment. This method automatically classifies the current image based on the trained patterns, thus improves the classification accuracy. Findings: The performance of the proposed system achieves the accuracy rate of 94.9%, with respect to manually crack detected and segmented images.

Keywords: *railway track crack detection, deep learning models*

1. INTRODUCTION

In the modern world, the role of railway network is an essential for the people around the world. The railway system consists of infrastructure, development and maintenance. The infrastructure of the railway network is the planning and construction of the rail tracks and establishing their contacts in railway junction. The development of the railway network is used to extent the tracks to the rural and interior areas of the village. The rail tracks are maintained by maintenance division of the railway network system. The rail tracks are severely affected by corrosion due to the air and floods during rainy season. They make cracks on the rail track which leads the accident of the trains. The quality of the rail track is important to prevent such defects in rail track and these cracks must be frequently checked to avoid accidents.

The procedure for capturing the rail track, in which the pre-checking vehicle is passed over the running track of the rail. The light source in this vehicle
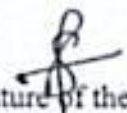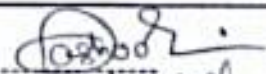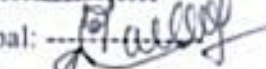
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RESEARCH ON THE KEY TECHNOLOGY OF NETWORK SECURITY BASED ON MACHINE LEARNING

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ABSTRACT: With the development of information technology, the huge number of network devices, applications, and the explosive expansion of network data have made the network environment increasingly complex, posing huge potential risks to network security. The targets of cyber attackers are no longer limited to cyber attacks on ordinary users, but they have shifted their targets to network environments with related backgrounds such as enterprises, governments, and countries. The diversification of network services has generated massive amounts of Internet data, and traditional network security technologies have been difficult to meet the current needs of network security in terms of performance and selfadaptability. Research on network security based on machine learning has achieved many results, showing strong capabilities in processing massive data, automatic learning, detection and identification, and broadening the development of ideas in the field of network security. So we combine machine learning-related technologies to improve intrusion detection performance and alarm correlation automation, and investigate key technologies such as machine learning-based network security situational awareness methods and dynamic data stream classification methods based on judgment feedback, in order to improve the detection performance, adaptive and generalization capabilities of machine learning-based network security technologies.

I. INTRODUCTION

With the rapid development of information technology, thanks to the mature application of communication, big data and cloud computing, the results of Internet have benefited people's livelihood, economy, government and other aspects, and become a new driving force for national development. Internet entertainment, Internet travel, online education, etc., its user scale and economic benefits have grown significantly over the previous year. Internet technology, the development of network technology has brought convenience to the life of the public, but also brought a variety of security issues, which gradually developed specific cyber attack techniques for specific occasions. The targets of cyber attackers are not only limited to cyber attacks against the general public, such as obtaining passwords, malicious advertisements, and making ill-gotten gains. These cyber attackers have started to

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....Gender classification using deep learning....

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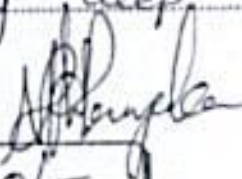
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GENDER CLASSIFICATION USING DEEP LEARNING

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ABSTRACT: Key facial features, gender, have been widely explored. Companies and organizations have investigated in related applications in several fields including insurance, retails, marketing, etc. It would bring tremendous benefit, which allow companies to easily identify their customer demographics. Several approaches have been proposed with remarkable results. However, because of the lack of open and multi-ethnic datasets, most modern age and gender estimating models were trained solely based on white people with Western facial features, and thus fall short with non-Caucasian people. In this paper, we are going to develop an applicable Wide ResNet model to estimate the age and the gender on faces. The proposed gender and face recognition technique using is verified for both test images of a man and a woman, a Transgender.

Keywords: *Deep learning, Resnet model, face recognition technique.*

I. INTRODUCTION

As technology increases, the applications that combine the advanced fields of pattern recognition and image processing are used to find age and gender. In today's world, age plays a prominent role, when you appear for an interview, health check-ups. The information of age is used in many governments, private and advertising sector organization to find the culprits, employee eligible for the job, audience to be targeted for their publicity of product respectively. However, it's not that easy to find the age of a person, and there are constraints that restrict us from seeing the correct age among the set of images. Human face contains lot of information through their expressions. These expressions confuse us while finding the age, and as their expression change, the facial feature differs, resulting in either higher or low than the people's ideal age. The age estimation plays a prominent role in the applications like biometric evaluation, 3d face marking, virtual makeup, and virtual try-on applications for jewellery and eye-ware by mapping the face according to the age found. Lens kart is such an application that gives the try-on option for their customers. Age estimation is a subfield of face recognition and face tracking which in combination can predict the health of the individual. Many health care applications use this mechanism to keep track of health by monitoring their daily activities. China uses this face detection technique in service driver identification and jaywalker identification. Some other countries use it for worshipper identification and advertising etc. Finding the correct dataset for training the model is a crucial task. Since the real-time data is
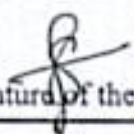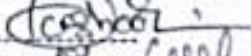
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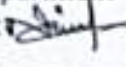Accredited with NAAC 'A' grade

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Detection of Possible Illicit Messages Using Natural Language Processing and Computer Vision on Twitter and Linked Websites

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ABSTRACT: Human trafficking is a global problem that strips away the dignity of millions of victims. Currently, social networks are used to spread this crime through the online environment by using covert messages that serve to promote these illegal services. In this context, since law enforcement resources are limited, it is vital to automatically detect messages that may be related to this crime and could also serve as clues. In this paper, we identify Twitter messages that could promote these illegal services and exploit minors by using natural language processing. The images and the URLs found in suspicious messages were processed and classified by gender and age group, so it is possible to detect photographs of people under 14 years of age. The method that we used is as follows. First, tweets with hashtags related to minors are mined in real-time. These tweets are preprocessed to eliminate noise and misspelled words, and then the tweets are classified as suspicious or not. Moreover, geometric features of the face and torso are selected using Haar models. By applying Support Vector Machine (SVM) and Convolutional Neural Network (CNN), we are able to recognize gender and age group, taking into account torso information and its proportional relationship with the head, or even when the face details are blurred. As a result, using the SVM model with only torso features has a higher performance than CNN.

Keywords- *Support Vector Machine (SVM) and Convolutional Neural Network (CNN).*

1. INTRODUCTION

Initially the websites were isolated and just placed for reading since the user could not truly interact with the web. However, from the innovation and arrival of web 2.0, there was a revolutionary and radical change since the user stopped being a simple spectator and became an active individual in social networks such as Facebook, Twitter, Instagram, among others . Unfortunately, a door has also been opened for illegal businesses such as human trafficking , where some countries, such as Latin American countries, have the highest rates of smuggling of people, especially children and adolescents under 14 years old. It is important to note that the average age of consent is

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X-RAY BAGGER BASED SECURITY ON AIRPORT USING DEEP LEARNING ALGORITHM

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ABSTRACT: Luggage screening is a very important part of the airport security risk assessment and clearance process. Automating the threat objects detection from x-ray scans of passengers' luggage can speed-up and increase the efficiency of the whole security procedure. We consider the use of CNN with transfer learning for the image classification and detection problems posed with in the context of X-ray baggage security imagery. The use of the CNN approach requires large amounts of data to facilitate a complex end-to-end feature extraction and classification process. In particular, we focus on identifying harmful objects like knife, blades etc., as threat objects, being the main part of the weapon needed for deflagration. For this purpose, we use a dataset of 22k double view x-ray scans, containing a mixture of benign and threat objects. In the proposed system we employ deep learning techniques (Convolutional Neural Networks and VGG16) for the classification task. Furthermore, we validate our findings on a second dataset of double view x-ray scans. We report and critically discuss the results of the comparison on both models, showing the accuracy of our approach.

1. INTRODUCTION

Security screening of X-ray baggage is majorly used to maintain security in transport, primarily in aviation and provides valuable image-based investigating operation for human admins reviewing immense, disorganized and immensely varying contents in baggage within a limited period [1]. Result of elevated consumers turnout in the universal traveling network and the increased attention on wider extension principles on national security, resulting in a challenged automated timeous classification of images task. The database images are the inputs that have been provided for checking it where it goes on to the pre-processing stage to analyze its width, height and many other features. After that, the next process that comes on to the stage is Convolutional Neural Network (CNN), where the image classification process occurs that is split up into class I and class II, where the first-class identifies the hazardous objects and the other class identifies the non-hazardous objects. For this methodology, YOLO
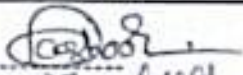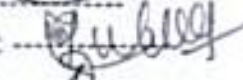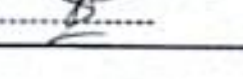
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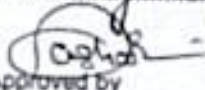
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VEHICLE PATTERN RECOGNITION USING MACHINE & DEEP LEARNING TO PREDICT CAR MODEL

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ABSTRACT: There has been an increase in the application of computer vision techniques. Police departments around the world rely on various types of artificial intelligence to help them catch criminals and avoid big traffic accidents. Although advances in vehicle recognition based on deep learning are being made, there are concerns about the current performance of the state-of-the-art systems. Detection systems, for example, are bound by a wide variety of scales. Vehicle detecting experts are trying to come up with a solution. This thesis proposes a more accurate model for detecting-moving vehicles. SVM, KNN, CNN, and linear regression are some of the machine learning algorithms used in this study to predict automobile models based on known inference and patterns. Among other models, CNN consistently outperforms the competition in terms of accuracy.

We'll cover SVMs, KNNs, CNNs, and linear regression in this part.

1. INTRODUCTION

In the last several years, the field of intelligent transportation systems (ITS) has produced a wide range of innovative concepts and solutions. In an ITS, cars, transportation systems, and drivers all work together to achieve these goals. In order to improve public health and safety while traveling, governments, corporations, and academic institutions work together to develop and implement cutting-edge ITS. To a great extent it is anticipated that developments in image processing and computer vision would have a significant impact on ITS technologies including vehicle surveillance and driver assistance systems as well as traffic control and monitoring. Identifying the manufacturer and model of a vehicle can only be done in real time

using human interpretation and license plate recognition in traditional car identification systems. The primary difference between the two approaches is that they are both vulnerable to risks and confined by a wide range of variables. With so many different automotive models and make variations, it might be tough to tell them apart. Keeping track of several displays, recording vehicle arrivals and departures, and only searching for a specific make and model is time-consuming and challenging for people. New considerations for automatic identification of such characteristics are opened when it comes to preventing excessive warnings to drivers owing to LPR failure and identifying fake number plates and unlawful vehicles, having the proper tolls in the toll collection systems, and so on. Recent interest in vehicle model and make recognition systems has resulted in an increase in efforts to improve the current system of vehicle detection and classification. Classification of vehicle makes and models, such as Vehicle Makes and Model Recognition, is essential to determining the particular type of vehicle (VMMR). However, despite these approaches' promised effectiveness, only a restricted number of car models and manufacturers are tested.

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6. Associating Professional Body / Agency: JES

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NLP based Machine Learning Approaches for Text Summarization

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ABSTRACT: Due to the plethora of data available today, text summarization has become very essential to gain just the right amount of information from huge texts. We see long articles in news websites, blogs, customers' review websites, and so on. This review paper presents various approaches to generate summary of huge texts. Various papers have been studied for different methods that have been used so far for text summarization. Mostly, the methods described in this paper produce Abstractive (ABS) or Extractive (EXT) summaries of text documents. Querybased summarization techniques are also discussed. The paper mostly discusses about the structured based and semantic based approaches for summarization of the text documents. Various datasets were used to test the summaries produced by these models, such as the CNN corpus, DUC2000, single and multiple text documents etc. We have studied these methods and also the tendencies, achievements, past work and future scope of them in text summarization as well as other fields.

Keywords: Abstractive (ABS) or Extractive (EXT)

1. INTRODUCTION

Today's world is centralized on computers and data. Data are our intangible thoughts and imagination. We are producers and consumers of data at the same time. Every little thing in our mundane lives are either a source or receiver of data. For, example when we drive there's data involved, the speed of the car, mileage, distance traveled, etc. Since 20th century, data has been a significant part of our lives, but these days we infer more from data. We store and access them through electronic and wireless systems. Since the advent of the internet, there's an enormous amount of data available today. The Internet is a storehouse of data. Information on news, movies, education, medicine, health, nations, weather, geology, etc. is available on the internet. This could be statistical, numerical, mathematical or text data. Text data is more difficult to interpret due to larger amount of characters. Due to this gigantic amount of information, there must be a system in order to get only the essential parts of the information we access. Text summarization is a way of doing this. Text summarization has been a topic of research and study since decades. Various models have been proposed
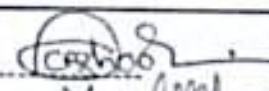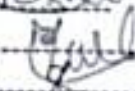
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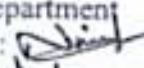## Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. __Amritha Mishra__

2. Designation : __Asst Professor__

3. Department : __IT__

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: __Image classification of the flower species identification using machine learning.__

5. Date & Duration of the Program: __June - 2022__

6. Associating Professional Body / Agency: __JES__

7. Financial support particulars:

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IMAGE CLASSIFICATION OF THE FLOWER SPECIES IDENTIFICATION USING MACHINE LEARNING

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ABSTRACT: Image classification has become one of the key use-cases for demonstrating machine learning. The proposed work will try to classify the given input image of flower species, based on the dataset provided. And it produces an output with the classification of flower in the input image. Flower identification systems are prominently used nowadays. Although modern search engines give mechanisms for visually searching for a query image containing a flower, robustness is lacking due to the intra-class variation among millions of flowers species worldwide. Therefore, a Machine Learning method using Convolution Neural Networks is used in this proposed research work to identify highly accurate flower species. The flower image extraction function is performed using a Pre-Trained Network Extraction of Complex features. On top of that, a machine learning classifier such as Logistic Regression or Random Forest is used to produce a higher precision score. This approach helps to reduce the system requirements required to conduct a Convolution Neural Networks (CNN) to compute the intensive training task.

Keywords: Convolution Neural Networks (CNN).

I. INTRODUCTION

Flower is a very important part of nature. Mostly we identify a plant through its flower. Experienced botanists do this identification of flower but a naive person will have to consult flower guidebooks or browse any relevant web pages on the Internet through keywords searching. Our system can recognizes the flower in real time using mobile camera. Currently this Android app can identify around 10 flowers. Most important thing is that this app can fully works in offline. We are continuously working to add more flowers to identify. Everyday we see a huge number of flower species in our house, parks, roadsides, in farms, on our rooftop but we have no knowledge of that flower species or their origin. Even we have no idea about its name. There are several guidebooks for flowers knowledge but it becomes quite difficult to find the name when have the picture. Even the Internet sometimes is not useful. But it is quite difficult for human brain to memorize all the species they see. Even some flower is similar to look at. This application recognizes the flower in real time by using mobile camera. The

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   Crop yield protection using machine learning algorithm

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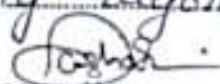
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CROP YIELD PREDICTION USING MACHINE LEARNING ALGORITHM

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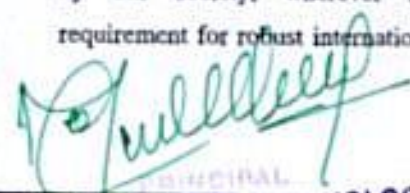
ABSTRACT: Agriculture is an important sector in India. It is the major source of economy. Agriculture is first and foremost factor which is important for survival. Machine learning (ML) could be a crucial perspective for acquiring real-world and operative solution for crop yield issue. Considering the present system including manual counting, climate smart pest management and satellite imagery, the result obtained aren't really accurate. So the researchers, scientists are trying their best to predict crop in a better way. This paper focuses mainly on predicting the yield of the crop by applying various machine learning techniques. In the proposed system the machine learning models are used and It uses the previous record for training the system using some machine learning algorithms like MLP and SVR where high accuracy can be achieved. Machine learning regression approach can be used for the better prediction of crop yield and improve the performance of the crop yield prediction.

I. INTRODUCTION

Crop production may be a complicated development that's influenced by soil and environmental condition input parameters. Agriculture input parameters vary from field to field and farmer to farmer. Collection such info on a bigger space may be a discouraging task. However, the environmental condition info collected in Republic of India at each 1sq.m space in numerous components of the district is tabulated by Indian meteoric Department. The massive such knowledge sets may be used for predicting their influence on major crops of that individual district or place. There are completely different foretelling methodologies developed and evaluated by the researchers everywhere the globe within the field of

agriculture or associated sciences. A number of such studies are: Agricultural researchers in alternative countries have shown that tries of crop yield maximization through pro-pesticide state policies have LED to hazardously high chemical usage. These studies have reported a correlation between chemical usage and crop yield [1]. Agriculture is associate trade sector that's benefiting powerfully from the event of detector technology, knowledge science, and machine learning (ML) techniques within the latest years. These developments return to satisfy environmental and population pressures round-faced by our society, wherever reports indicate a requirement for robust international agriculture yield

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4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: Customer Segmentation for marketing using machine learning k-means clustering algorithm.

5. Date & Duration of the Program: June 2022

6. Associating Professional Body / Agency: JETIR

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Towards... customer segmentation for marketing using

... ML K-means clustering algorithm

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CUSTOMER SEGMENTATION FOR MARKETING USING MACHINE LEARNING K-MEANS CLUSTERING ALGORITHM

[1]N. Sri Lakshmi, [1]V. Sai Pramod, [1]Shakeera, [1]A. Praveen, [2]Shaik. Kabeer

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Abstract: In this present work, the objective is to segment a large group of credit card users according to similarities and usage characteristics. Customer segmentation is then used by marketing department to tailor products and services specific to these customer segments. With the help of machine learning technique one can sort out the data and can find the target group by applying several algorithms to the dataset. Without this, it will be very difficult and no better techniques are available to find the group of people with similar character and interests in a large dataset. Here, the customer segmentation using k-means clustering helps to group the data with same attributes which exactly helps to marketing the best. We are going to use elbow method to find the number of clusters and at last we visualize the data. In this project K-means machine learning algorithm is used to form clusters of different customers. In this competitive market, it is of great significance to divide customer groups to develop customer centered products which would help them to derive successful marketing strategies and also understand what a customer wants. This helps in unravelling the hidden patterns in the data for better decision making for the future and which segment of customers to be targeted.

Keywords: Clustering, Elbow Method, K-Means algorithm, Customer Segmentation.

1. INTRODUCTION

Customer Segmentation means grouping the customers based on the marketing groups which shares the similarity among customers. To be more exact, it means segmenting customers sharing the common characteristics which is the best way of marketing. Customer Segmentation is gathering information about each customer and analyzing to identify the different patterns for creating the segments. Information is collected using data which is published related to market categories. The basic information which includes the age, gender, bank balance, purchases, instalments etc., We use k-means, an unsupervised learning algorithm to divide the unlabeled dataset into k different clusters in such a way that customers belong to one cluster have similar properties. The best way of marketing is to understand and analyze what a customer wants. Segmentation of the customers would make the marketing easier by understanding precisely what a customer needs and also in reducing the time and increasing the overall sales. This is the motivation for taking up this project. I. S. Dhillon and D. M. Modha [1] reviewed about the Concept decompositions for large sparse text data using clustering, Machine Learning. T. Kanungo, D. M. Mount, N. S. Netanyahu, C. D. Piatko, R. Silverman, and A. Y. Wu [2] studied about an efficient K-means clustering algorithm. MacKay and David [3] studied about An Example Inference Task: Clustering.

Jiawei Han, Micheline Kamber, Jian Pei [4] reviewed about the Data Mining Concepts and Techniques. D. Aloise, A. Deshpande, P. Hansen, and P. Popat [5], studied about The Basis of Market Segmentation. S. Dasgupta and Y. Freund [6] studied about the Random Trees for Vector Quantization. V. Vijilesh, A. Harini, M. Hari Dharshini, R. Priyadarshini [7] studied about the Customer segmentation using machine learning. Jaswanth-Reddy Vulchi [8] reviewed about customer segmentation using k-means clustering. Yash Kushwaha, Deepak Prajapati [9] studied about the Customer segmentation using K-means algorithm.

2. SYSTEM ANALYSIS:

The present work consists of two phases, in the first phase is the existing system, which stores customer data through paperwork and analyzing manually. But the digital data is increasing day by day. By analyzing the collected customer data manually, they get to know about who is beneficial to their business and increase their sales. The second phase is the process of segmentation is performed on data of credit card users. We collect the data which includes the details about age, gender

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2. Designation : Assistant Professor

3. Department : Civil

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5. Date & Duration of the Program: May, 2022

6. Associating Professional Body / Agency: Official Journal of the patent Office
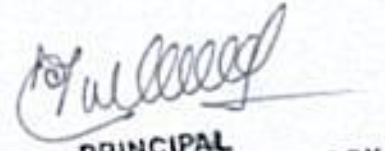
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Towards.......... Patent Journal of Dr. V. Karthik on 20/05/2022..........

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9. Lokesh
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The Patent Office Journal No. 20/2022 Dated 20/05/2022

30918

(54) Title of the invention : HIGH STRENGTH CONCRETE PERFORMANCE WITH ULTRA-FINE MINERAL ADMIXTURES

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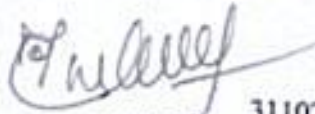
(57) Abstract :

Concrete is a broadly utilized development material all over the planet, and its properties have been going through changes through innovative headway. Various kinds of concrete have been created to upgrade the various properties of cement. Up to this point, this improvement can be isolated into four phases. The earliest is the conventional ordinary strength substantial, which is made out of just four constituent materials, which are concrete, water, fine and coarse totals. With a quick populace development and a more appeal for lodging and framework, joined by ongoing improvements in structural designing, for example, tall structures and long-range spans, higher compressive strength concrete was required. Toward the start, decreasing the water-concrete proportion was the simplest approach to accomplish the high compressive strength. From there on, the fifth fixing, a water lessening specialist or super plasticizer was fundamental. Notwithstanding, at times the compressive strength was not generally as significant as a few different properties, like low penetrability, sturdiness and functionality. In this manner, elite execution concrete was proposed and broadly learned toward the finish of the last hundred years. As of now, elite execution concrete is utilized in gigantic volumes because of its specialized and financial benefits. Such materials are portrayed by worked on mechanical and toughness properties coming about because of the utilization of synthetic and mineral admixtures as well as particular creation processes. This invention audits the joining of mineral admixtures in twofold, ternary and quaternary mixed mortars in concrete.

No. of Pages : 14 No. of Claims : 7

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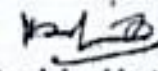
ANUMOLU KRISHNA PRIYA

From **SRK INSTITUTE OF TECHNOLOGY**

has attended Two days National Level Workshop on **"NAAC Accreditation System with Effective DVV Process"** organized by Internal Quality Assurance Cell, G H Raisoni College of Engineering, Nagpur sponsored by National Assessment & Accreditation Council (NAAC) on 13th & 14th May 2022.

Dr. Pramod Walke
Convener

Dr. Santosh Jaju
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3. Department : ECE

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6. Associating Professional Body / Agency: IEEE Explore

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Convolutional 3D in Activity Recognition -A Review

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Abstract: Activity recognition in videos using deep learning has shown phenomenal progress in the last decade. The community of computer vision has been working on video data for about a decade and solved many uncertainties. Various research groups have presented many convolutional neural network architectures to solve the issues related with classification, and many more computer vision tasks. All these networks were about two dimensional image data. Recently research community of Face book introduced a network architecture called C3D network which have three dimensional convolution layers. The C3D network is performing well in activity recognition from large-scale videos, video classification tasks. This article is focused on importance of C3D network by mentioning the drawbacks of hand crafted as well as deep learning methods, architecture of C3D network, contrasts in 2D and 3D CNNs, review on different deep learning models employed for activity detection from videos and compared the performance of various anomaly detection approaches with the proposed C3D network.

Keywords: *C3D network, Activity Recognition, Convolution, Video data.*

I. INTRODUCTION

Activity recognition from videos is to permit the computer to detect the human activities automatically in real world. Analysis of behaviour and video analysis attracted attention of various fields ranging from academics to industry. The human activity recognition in videos is still a challenging task due to two different factors. First, the data in the video is intelligence information with several complexities, e.g., cluttered background, variations in scale, camera motions, view point changes, and so on. Secondly, the model used to recognize the activity from video should have the capability of describing both précised (short-term) small motions and stable (long-term) temporal change of appearances.
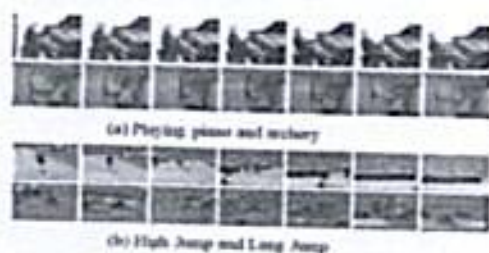

(a) Playing piano and archery

(b) High Jump and Long Jump

Fig. 1 Example video data from UCF 101

Figure 1 clearly illustrate the above two issues. These figures are taken from UCF 101 dataset. Playing archery and piano can be recognized easily by using information from small motions between continuous frames or from static frames. But sometimes short duration clips are not having sufficient information for differentiating same classes. Second part of the figure representing the high and long jump video data. Thus, it is necessary to exploit the complementary description of the single fixed image, long and short-term temporal evolution and also video-level representation in the activity recognition. Another important factor related with this activity recognition is that computational cost in dealing with large-scale videos. Generally the computational cost is the major bottleneck for large-scale video activity recognition. From the last decade to till, a tremendous work has been progressed on video-based activity detection. The work includes, manual descriptor methods, representing activities with deep learning methods. The manual methods mainly concentrated on feature extraction, encoding, classification and designed discriminative powerful video descriptors. These are designed with local spatio-temporal features [1]. The problem with these descriptors is that, their computing performance is not at satisfactory level. The deep learning models utilized CNNs to have single image-level display and accomplish the temporal characteristics of videos. The problem with these deep learning models is they cannot be used for real-time scenario because of their high computational cost. To address these difficulties researchers are now taking the help of 3 dimensional convolution neural networks (C3D networks). The C3D networks are able to represent the information at image-level as well as video level.

II. Architecture of C3D network

2.1 Features of C3D

Generic feature extracting:

1. The three dimensional convolution layers in C3D network have the ability of extracting both spatial and temporal components. Both the components are corresponding to human-object interaction, motion of objects, human-scenes, human actions, and it displays the presence or absence of the objects in the scenes.

2. It makes a basic video feature representation for large videos like event detection action and localization without fine-tuning for every task.

3. Not limited in representing the appearance as in AlexNet or ResNet.

Compact representing

1. The input video segment of 16 frames in C3D model depends on dataset used after down sampling to a fixed size and the output is a 4096-element vector which gives a compact representation of a video segment.

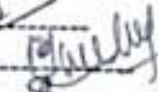2. For action recognition [2], action localization task [3] the video segments can be further fed to a

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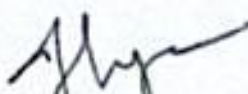
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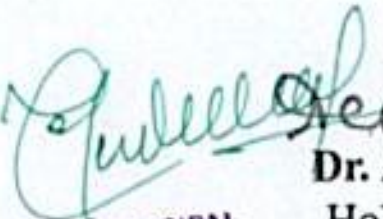
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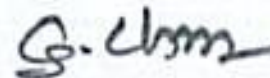
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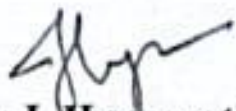
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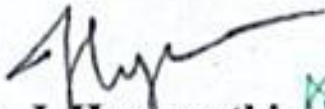ENIKEPADU, VIJAYAWADA-521 108.

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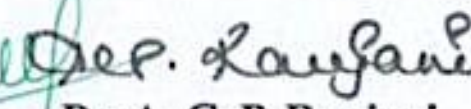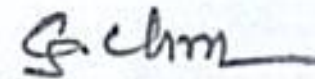
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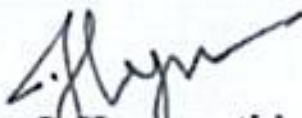
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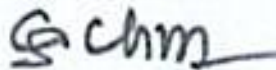Enikepadu, Vijayawada - 521108
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Abstract – Commercial off-the-shelf semiconductor devices cannot supply system solutions provided by ASIC products. Only a few of the most obvious benefits include lower system costs, smaller volumes and weights, and improved system performance. An ASIC design solution can sometimes be used in conjunction with analogue or mixed-signal designs, but doing so requires weighing various factors, such as the level of available market technology and quality vs. the investment required to set up a mixed-mode design environment and hire sufficient staff. Two mixed-signal devices have been developed using the proposed approaches, and one of those devices (e.g., ABACUS) is part of an ESPRIT project partially funded by the European Commission.
Index Terms –ASIC, ESPRIT, Mixed device signal

I. INTRODUCTION

A variety of computing paradigms have been produced by VLSI technology, depending on the needs of the application and the environment in which it is deployed. With the rapid growth of the Internet of Things (IoT) in the consumer electronics industry, edge computing has gained significance in recent years in addition to the conventional pursuit of large-scale and centralized computing. Local computing, like biomedical and industrial applications, demanded energy or connectivity autonomy and saw the same technology enabling.

Local and edge computing are frequently constrained by a lack of resources, the most important of which is electrical power. Many of these applications have limited processing tasks and parameters, making it inefficient and even impossible to integrate general-purpose computing devices into them [1]. Application-specific hardware, such as a bespoke circuit that exclusively executes the appropriate algorithms, should be combined in such systems. A system agnostic approach to algorithm and hardware design uses compartmentalized techniques to develop algorithms independent of hardware, and less so the reverse. Using a design process known as algorithm/hardware co-design, a wide design space can be explored simultaneously from both algorithmic and hardware viewpoints. Co-design approaches are efficiency solutions intended to solve this, with the goal of providing higher performance gains per design effort across many design stacks. There are functional and non-functional standards for algorithm/hardware co-design. An algorithm's executability in hardware is all that the functional specification specifies. There is a lot of design space with this problem. There are no functionalities listed in the non-functionality standard section. Non-functionality spec compliance is the primary focus of the co-design process.

Algorithm/hardware co-design, at its most basic level, is the optimization of an algorithm model that reflects the architectural behaviour of hardware and systems, with the inclusion of scheduling, data traffic models and linkages between algorithm stack operators and processing elements (PEs) in the hardware stack.

Constraint allocation and partitioning is the optimization technique employed in the projects showcased here. Here's how it works: Then model the algorithm operators with the associated PE cost in the constraint domain, and experiment with applicable hardware techniques to allow re-allocation of the constraint domain budget, which in turn allows for further modifications to PE/operator, scheduling, and architecture. Do this iteratively until the design is optimized, and then stop [2].

ASICs, or Application-Specific Integrated Circuits, are custom-built integrated circuits created for a particular purpose. If an ASIC is being designed for a large-scale production, it may contain a significant portion of all of the electronic components needed on a single integrated circuit. It's easy to see why ASIC designs are only used in high-volume products due to their exorbitant price tag.

Although ASIC designs are expensive, they can be very cost-effective in many applications with enormous volumes. Because an ASIC is customizable to match a particular product's needs, fewer components are needed because an ASIC contains most of the entire design on a single integrated circuit [3]. This means that they're frequently seen in high-volume products like cell phones or other comparable ones, whether they're for consumers or businesses.

Logic functions were the sole ones handled by the early ASICs, which were general-purpose. Analogue (including RF) and logic functions can now coexist in the same mixed signal ASIC architecture. A complete system on a chip, or SoC, can be built using these mixed signal ASICs. A whole system or product can be built entirely on a single chip, eliminating the need for any further components. As a result, many applications find a mixed signal ASIC architecture to be an appealing option [4].

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2. Designation : Assistant professor

3. Department : Civil

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: 3 days international webinar on cxsuage of innovative technologies and solutions

5. Date & Duration of the Program: 11th to 13th April 2022

6. Associating Professional Body / Agency: Ramaiah institute of technology

7. Financial support particulars:

   i.   Registration Charges: 3000
   ii. Travelling Allowances:
   iii. Membership Fee   :
   iv. Others (if any)   :

Date: 28/4/2022   Signature of the Staff Member

1. Recommendations of the HOD:
2. Recommendations of the Principal:
3. Recommendations of the IQAC: *Sanctioned / Not Sanctioned

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1. Name of the Staff Member : Dr./Mr./Ms. V. Sekhar Babu

2. Designation : Assistant Professor

3. Department : ECE

4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details: Deep Residual CNN with contrast limited Adaptive Histogram Equilization for weed detection

5. Date & Duration of the Program: Published on 12 April 2022

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7. Financial support particulars: Journal Publication PP - 717 - 722]

   i. Registration Charges:
   ii. Travelling Allowances:
   iii. Membership Fee :
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Deep Residual CNN with Contrast Limited Adaptive Histogram Equalization for Weed Detection in Soybean Crops

Check for updates

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ABSTRACT

Weeding is the fundamental task in agriculture to increase yields crop. Accurate weed recognition is major prerequisite in precision agriculture. Precision weeding significant reduces the usage of herbicides in farming. Deep learning has been a major endeavor for enhancing the learning performance, particularly for classification. This paper proposes a Deep Residual Convolutional neural network (DRCNN) with Contrast Limited Adaptive Histogram Equalization (CLAHE) for weed and crop classification helpful for accurate individual targeting of weeds. In this method, initially data augmentation is performed to avoid overfitting on training data, A deeper residual network architecture is defined through residual connections in CNN architecture this architecture improves gradient flow through the network and for training the deeper network. The experiments are carried out on the publicly available dataset with four groups of images viz., soil, grass, soybean and broadleaf. Different state-of-the-art pretrained networks like AlexNet, and VGG-16 Net are also investigated and the results are compared. The proposed method yielded an accuracy of 97.3% which is superior to other methods.

1. INTRODUCTION

Crop production is the major objective of agriculture. For global food management it is very essential. Crop is a cultivated plant while weed is an unwanted plant which grows randomly in the field. Weed control is very vital in crop production. Precision weed control is a challenging task to get quality crops, and can reduce the amount of herbicides to ensure the best results. This is possible with the use of latest techniques based on artificial intelligence. Different machine learning and deep learning algorithms are used recently in precision agriculture. There can be many varieties of weed that are harmful for crop production and need to be detected in the early stages of growth. The basic resources which are essential for crop growth viz., soil, water, sunlight and also the fertilizers used are effected by these unwanted weeds. From the literature it is observed that about one third of crops are effected due to growth of weeds. Weed and crop classification is fundamental in agriculture, rural medicine, forestry and commercial applications. In the past, weed detection and removal was done by men, later some research work was done and implemented on weed–crop classification for automatic detection and removal. subsequently robots came into existence, but suffer accuracy problem existing with traditional classification techniques. So we propose a deep learning method to perform weed/crop classification.

2. RELATED WORK

Weed and crop recognition is a challenging research area and various computer vision algorithms are developed

focusing this area. The fundamental approaches are feature based and recently different machine learning and deep learning algorithms are developed aiming at recognizing weeds accurately. Contrast-Limited-Adaptive-Histogram-Equalization (CLAHE) is widely used image enhancement method. The following subsections outlines the related work of the preprocessing method, Feature based and Deep learning based approaches.

2.1 Feature-based approaches

Earlier, weed and crop identification methods are based on low level feature extraction like color, texture and shape. In research Shape, texture and fractal dimensions are integrated for weed recognition. In their work Support vector machine and Shafer-Dempster evidence theory are used [1]. In maize and weed classification Color indices is used. Here Support Vector Data Description (SVDD) is also used and investigated under different weather conditions [2]. In precision farming weed control task is vital. To achieve this SURF features integrated with an optimized Gaussian Mixture Model is employed [3]. Plant and weed classification in UAV imagery is done for smart farming [4]. In addition, multi spectral features are used in weed recognition [5]. The features mentioned used for recognition are taken on human experience. The recognition performance is different on different datasets [6].

2.2 Deep learning based approaches

With feature based methods, different machine learning techniques are used for classification purpose. Recently these