Dr. MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY

Enlightening Technical Minds

Dr. MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY

An Autonomous Institution

Affiliated to Anna University, Chennai. Approved by AICTE.
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Udumalai Road, Pollachi - 642 003. Tamilnadu.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PROUDLY PRESENTS

NEWSLETTER

ACADEMIC YEAR: 2022-23

ODD SEM

Dr. MAHALINGAM

MCET

COLLEGE OF ENGINEERING AND TECHNOLOGY

VISION OF THE DEPARTMENT

To develop engineers with global employability, entrepreneurship capability, research focus and social responsibility.

MISSION OF THE DEPARTMENT

- To develop internationally competent engineers in dynamic IT field by providing state-of-art academic environment and industry driven curriculum.
- To motivate and guide students to take up higher studies and establish entrepreneurial ventures.
- To enrich the department through committed and technically sound faculty team with research focus in thrust areas.
- To undertake societal problems and provide solutions through technical innovations and projects in association with the industry, society and professional bodies.

Programme Educational Objectives (PEOs)

PEO 1: Domain Expertise - Possess expertise and emerge as key players in IT integrated domains.

PEO 2: Computing Skills and Ethics - Employ computing skills to solve societal and environmental issues in an ethical manner.

PEO 3: Lifelong Learning and Research - Involve in lifelong learning and research to meet the demands of global technology.

Programme Outcomes (POs)

PO1. Engineering Knowledge : Apply the knowledge of mathematics, science, engineering fundamentals and concepts of Computer Science to solve complex engineering problems.

PO2. Problem Analysis : Identify, review literature, formulate and analyse complex engineering problems using first principles of mathematics and engineering sciences.

PO3. Design and Development of Solutions : Design and develop computing solutions for complex engineering problems with societal and environmental awareness.

PO4. Complex problem Investigation : Investigate complex problems by employing research methods to arrive at valid conclusions.

PO5. Modern Tool Usage : Evaluate and use appropriate tools and techniques in engineering activities .

PO6. Societal contribution : Follow professional engineering practice by applying contextual knowledge to assess societal and legal issues.

PO7. Environment and Sustainability : Understand and provide professional engineering solutions taking into consideration environmental and economic sustainability.

PO8. Ethics : Follow ethical principles and norms in engineering practice.

PO9. Individual and Team work : Function effectively as an individual, team member or leader in diversified environments.

PO10. Communication : Communicate effectively through various modes for all engineering activities.

PO11. Project Management and Finance : Apply Engineering knowledge and management principles for effective project management in multi-disciplinary environments.

PO12. Life-long Learning : Engage in independent life-long learning and skill development for professional and social well being.

Programme Specific Outcomes (PSOs)

PSO1. Systems Engineering: Employ software engineering principles in the design and development of efficient systems.

PSO2. Knowledge Engineering: Apply data analytics techniques for solving real world problems.

Table of Contents

DEPARTMENT ACTIVITIES	1
STUDENT ACHIEVEMENTS	18
FACULTY ACHIEVEMEN TS	40

Dr. Mahalingam College of Engineering and Technology, Pollachi

Department of Computer Science and Engineering

CSE - Newsletter

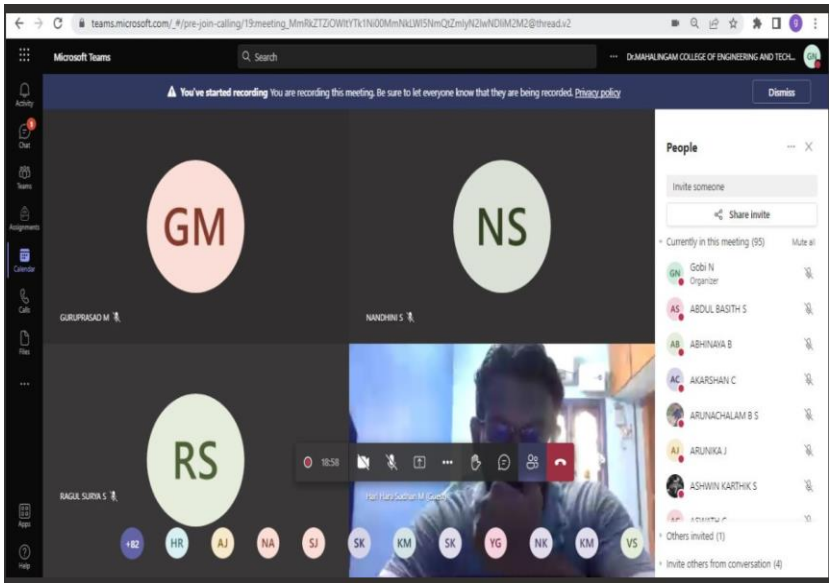
Department Activities

1. Research Seminar on "**Effective Protein Structure Analysis for the Detection of Hemophilla Disease using Big Data Analytics**" presented by Mrs.N.Sumathi, AP(SS)/CSE on 20.07.2022.

2. Research Seminar on "**A Study on Nature Inspired Optimization Algorithms for Feature Selection**" presented by Mrs.S.C.Lavanya, AP(SS)/CSE on 22.07.2022.

3. Ph.D Viva Voce on "**Optimization based Intelligent Watermarking Techniques for 3D Mesh Models**" presented by Mr.Modigara Narendra Research Scholar of **Dr.M.L.Valarmathi,** Professor/CSE on 02.08.2022

4. Department of CSE conducted an alumni interaction Programme on **"Current trends in IT Industry"** for III Year CSE students on 06.08.2022 from 12.00 P.M to 01.00 P.M. **Mr.M.Hariharasudhan** of **Infosys** acted as a Resource Person.



5. Department of CSE conducted an alumni interaction Programme on **"Career Opportunities in IT Industry"** for III Year CSE students on 13.08.2022 from 11.00 A.M. to 12.00 P.M. **Mr.G.Sooryakiran** of **VVDN Technologies, Pollachi** acted as a Resource Person.

6. Department of CSE conducted an alumni interaction Programme on **"Guidelines for Higher Studies"** for III Year CSE students on 13.08.2022 from 12.00 P.M. to 01.00 P.M. **Mr.T.Dhineshprabhu** of **National Institute of Wind Energy** acted as a Resource Person.

7. Students of III Year CSE - ‘A’ Section have gone for Industrial visit to **BSNL, Coimbatore** on 27.08.2022.

8. Students of III Year CSE - ‘B’ Section have gone for Industrial visit to **BSNL, Coimbatore** on 30.08.2022.

9. 24th Inaugural Function of Digiflash CSE Department Association was inaugurated on 10.09.2022. **Mr.M.Hari Hara Sudhan**, Technology Lead, Infosys, Chennai acted as the chief guest for the function and interacted with the students.

10. Department of Computer Science and Engineering Organized a **One-day Workshop** on "**Extended Reality**" held on 10.09.2022. **Mr.R.Hari Hara Sudhan**, Lead Consultant, Thought Works, Coimbatore acted as the Resource Person.

11. Department of Computer Science and Engineering Organized a **Technical Talk** on "**Importance of Database in Day to Day Life**" held on 12.09.2022, Mr.Harsha Vardhan, Founder, Spot Knack acted as the resource person.

12. Department of CSE conducted a "**Fun Flash Events**" for II Year & III Year CSE Students and it is organized by **Digi Flash (Department Association) on 23.09.2022.**

13. Department of CSE conducted a "**Hack Fest**" Event for II Year CSE & III Year CSE Students and it is organized by **Digi Flash (Department Association) on 24.09.2022.**

14. Department of CSE conducted a "**Quiz Competition**" for II Year CSE Students and it is organized by **Digi Flash (Department Association) on 27.09.2022.**

15. Research Seminar on "**A Study on Computer Aided Articulatory Model to Enhance the Performance of Speech Synthesis Systems**" was presented by **Mrs.C.Jayashree, AP(SS)/CSE** on 28.09.2022.

16. Students of **II Year CSE – 'B' Section** visited **Sierra Technologies**, Coimbatore and they learnt about IoT Automation Process on 30.09.2022

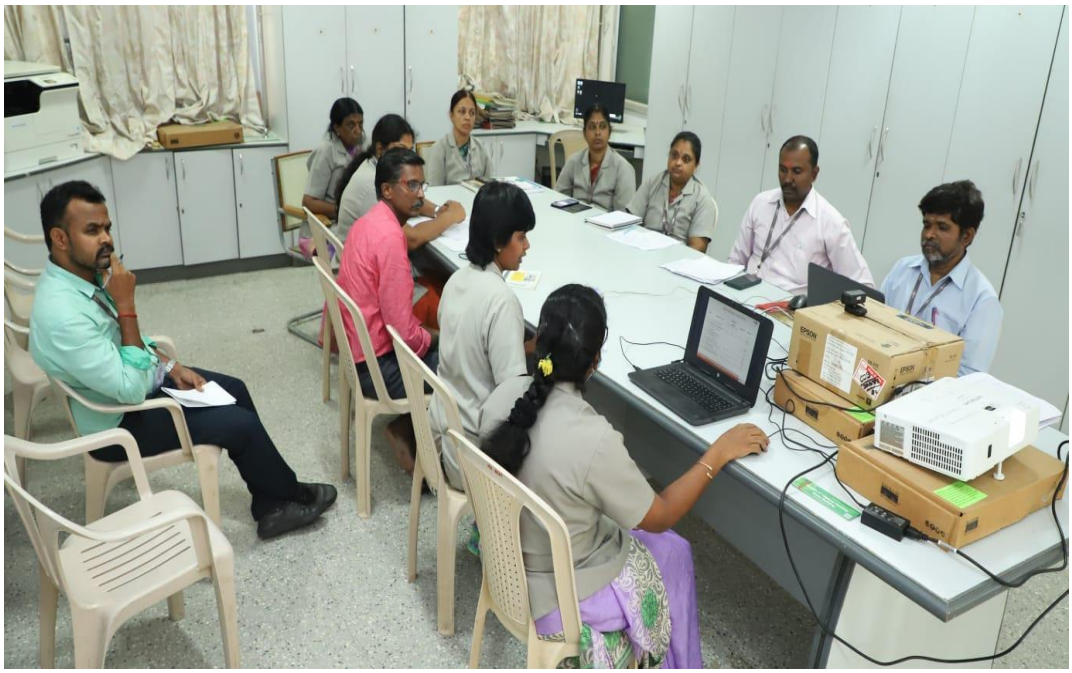
17. Department of CSE organized an Alumni Interaction Programme on "**Cyber Security**" for II Year CSE students on 01.10.2022. **Mr.B.Lakshmi Nathan** (2009 to 2013 Batch), Cyber Security Ops Manager of Fiserv, Canada acted as a Resource Person.

18. Department of CSE organized an Alumni Interaction Programme on "**Industry Expectations from Freshers**" for III Year and IV Year CSE students on 07.10.2022. **Mr.K.Abiram** of Mr.Cooper - Chennai, **Mr.V.Karunai Arasu** of HCL - Chennai, **Ms.V.Nandhini** of Quess Corp and **Ms.S.Nivetha**, Cyber Security Analyst of HPCL acted as a Resource Persons.

19. Department of CSE organized an Alumni Interaction Programme on "**Current Industry Trends**" for II Year CSE students on 08.10.2022. **Mr.Harshit Pramod**, Technical Support Engineer of Infoworks, **Mr.M.Ram Prasad**, Data Scientist of Bosch Global Software Technologies, **Mr.C.Rakesh**, SX/EIA of Bosch Global Software Technologies, and **Mr.R.Sunilsamson** acted as a Resource Persons.

20. Department of CSE conducted a "**Workshop on Java Programming**" for II Year CSE students and it is organized by **Digi Flash (Department Association)** on **15.10.2022.**

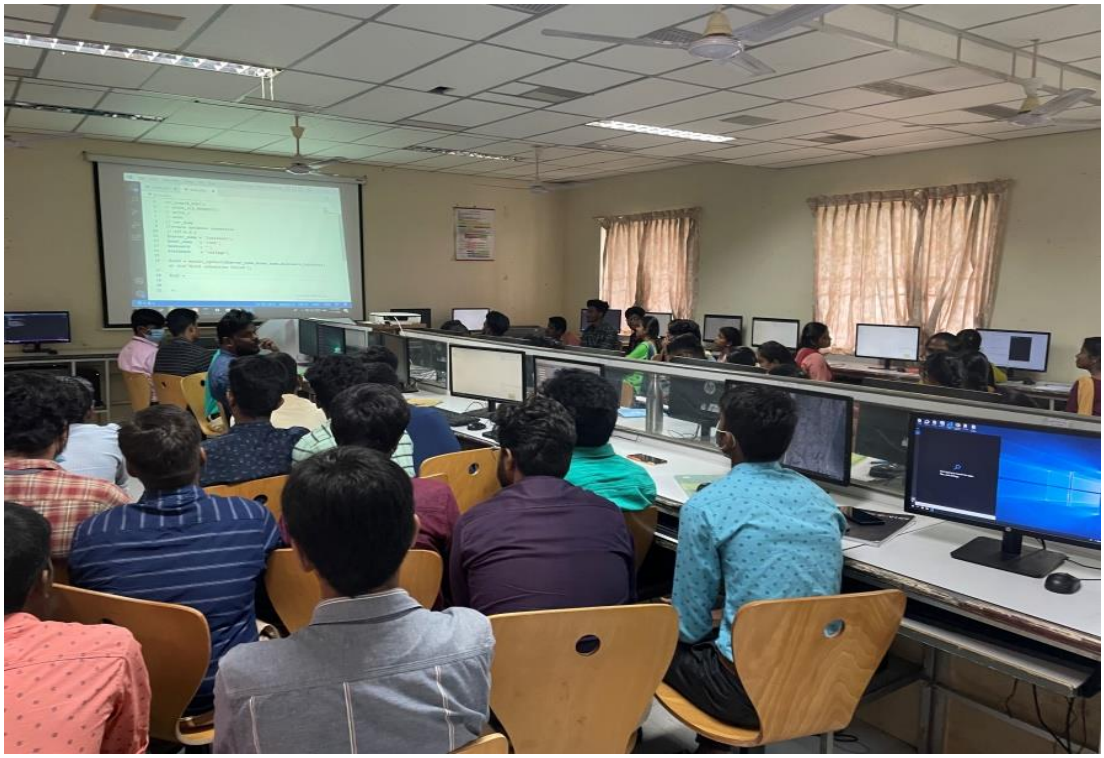
21. **16th BOS meeting** of **CSE Department** was held on **18.10.2022** from 03.00 P.M to 04.30 P.M



22. Students of **II Year CSE – 'A'** Section have gone Industrial Visit to **Sierra Technologies**, Coimbatore on 03.11.2022 and they learnt about IoT Automation Process.

23. **Department of CSE** Conducted a **One Credit Course** on **"Web Designing Using PHP & JQuery**" for 65 students of II Year CSE – 'A' Section on 11.11.2022 **Mr.S.K.Dhineshkumar, Senior Technical Lead-Product Development** of **Lantrasoft Private Limited, Coimbatore** acted as a Resource Person.

24. **Department of CSE** Conducted a **One Credit Course** on **"Web Designing Using PHP & JQuery**" for 65 students of II Year CSE – 'B' Section on 11.11.2022. **Mr.Cheran Sengodan, Senior Full Stack Developer** of **Sensiple, Chennai** acted as a Resource Person.



25. Department of CSE conducted a "**Two-day Workshop on Amazon Web Services**" for III Year CSE students and it is organized by Digi Flash (Department Association) on 17.11.2022 and 18.11.2022. **Mr A.Gobinath** Head Training & Delivery of Xplore IT Corp, Coimbatore acted as a Resource Person.

26. Department of CSE conducted a "**Two-day Workshop on Cyber Security**" for III Year CSE students and it is organized by ISTE Student's Chapter and Digi Flash (Department Association) on 17.11.2022 and 18.11.2022. **Mr S.Vijay Krishna** Assistant General Manager of BSNL, Tirunelveli acted as a Resource Person.

27. Students of IV Year CSE – 'A' Section visited **IROID Technologies**, Kochi and they learnt about Web and Mobile App Development on 17.11.2022

28. Department of CSE conducted a **Parents meeting** on 26.11.2022. Parents of **II Year CSE students** attended the meeting.

Dr.Mahalingam College of Engineering and Technology, Pollachi – 642003

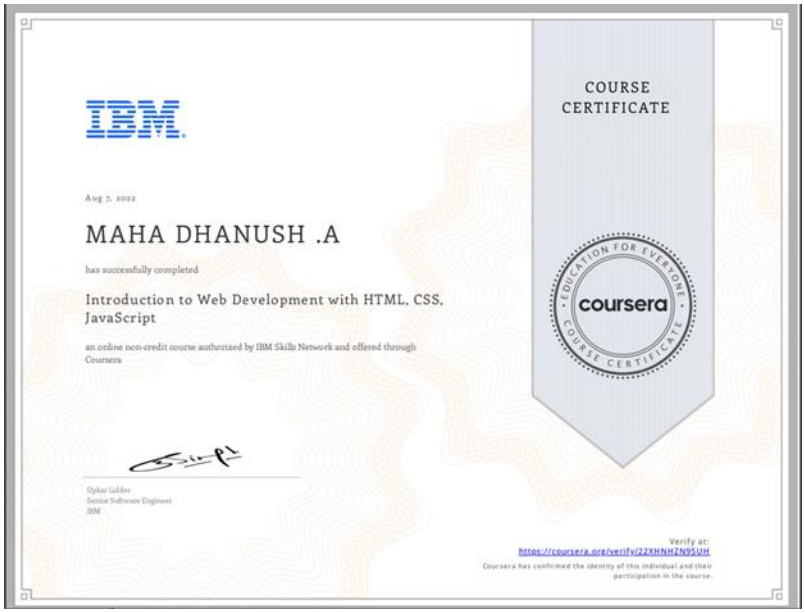
Department of Computer Science and Engineering

CSE Newsletter

Student Achievements

1. **Selvan.Mohamed Thouheeth Kabir**, student of III Year CSE has successfully completed an online certification course on "**Start the UX Design Process: Empathize, Define and Ideate**" offered by Coursera.

2. **Selvan.A.Maha Dhanush**, student of III Year CSE has successfully completed an online certification course on "**Introduction to Web Development with HTML, CSS, JavaScript**" offered by Coursera.



3. **Students of III Year CSE** have participated in **Smart India Hackathon 2022- Software Edition** – Held at Dr.BC Roy Engineering College, Durgapur, West Bengal on 25.08.2022 & 26.08.2022 and **Won First Prize** for the Problem Statement named **"Drone Neutralization Technique"**

4. **Students of IV Year CSE** have participated in **Smart India Hackathon 2022- Software Edition** - Held at Excel Engineering College, Komarapalayam held on 25.08.2022 & 26.08.2022 for the Problem Statement named **"Every Classroom a Digital Classroom"**

5. **Students of III Year CSE** have attended the webinar on **"Neoteric Frontiers in Cloud, Edge and Quantum Computing"** organized by AICTE on 18.08.2022

6. **Selvan.R.Roshan, Selvan.M.Bharathi Vasan, Selvan.A.Maha Dhanush, Selvan.G.Umesh Krishnan G** and **Selvan.S.Sri Dhanvarsh** Students of III Year CSE have participated in "**iTech Hackfest 2022 – A National Level Hackathon**" held at PSG Institute of Applied Research from 25.08.2022 to 27.08.2022

PSG Institute of Technology and Applied Research

Department of Computer Science and Engineering

in association with

Certificate of Participation

This is to certify that ....SRI...DHANVARSH...S..... of Dr.MAHALINGAM...COLLEGE...OF...ENGINEERING AND TECHNOLOGY has participated in "iTech Hackfest 2022 - A National Level Hackathon" in collaboration with SAP and Kaar Technologies held at PSG Institute of Technology and Applied Research from 25-08-2022 to 27-08-2022.

Maran Nagarajan
CEO & Founder
Kaar Technologies

Ferose V R
Senior Vice President & head
SAP Academy for Engineering

Dr. G. Chandramohan
Principal
PSG iTech

7. **Selvan.P.Gowtham**, Student of II Year CSE, has successfully completed an online certification course on "**Google Cloud Platform (GCP) Fundamentals for Beginners**" offered by Udemy

udemy

CERTIFICATE OF COMPLETION

Google Cloud Platform (GCP) Fundamentals for Beginners

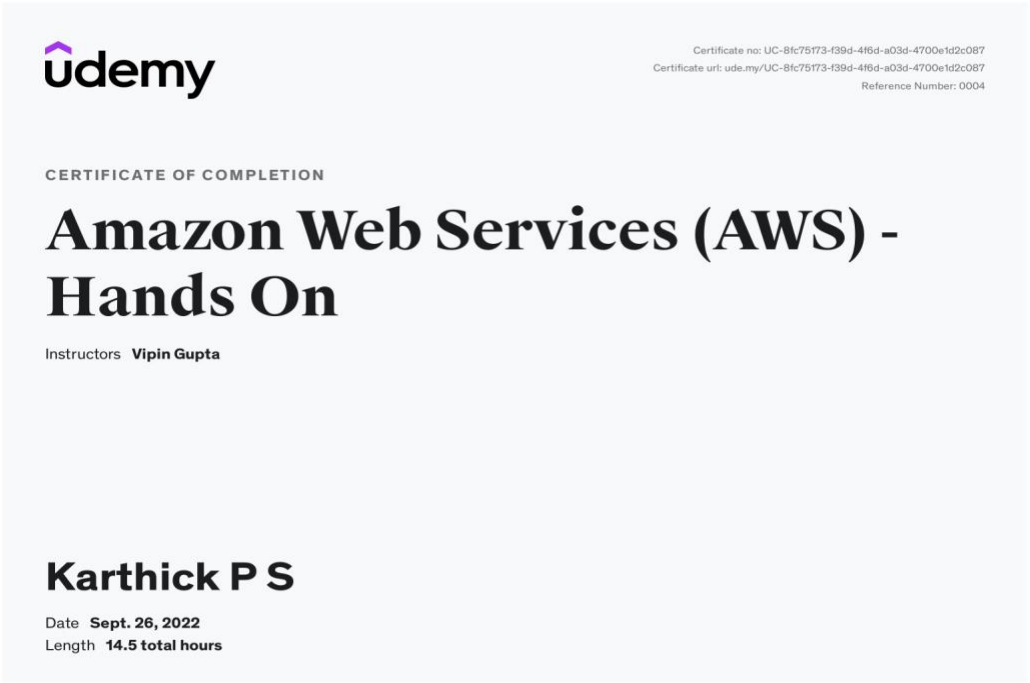
Instructors Janakiram MSV

Gowtham P

Date Sept. 25, 2022
Length 4 total hours

8. **Selvi.Reena Sajad Hyder** and **Selvi.Reemaa Sajad Hyder** Students of IV Year CSE have participated and **Won Cash prizes in Madurai Marathon 2022** held on 28.08.2022.

9. **Selvan.P.S.Karthick**, Student of II Year CSE, has successfully completed an online certification course on "**Amazon Web Services (AWS) – Hands on**" offered by Udemy


udemy

Certificate no: UC-8fc75173-f39d-4f6d-a03d-4700e1d2c087
Certificate url: ude.my/UC-8fc75173-f39d-4f6d-a03d-4700e1d2c087
Reference Number: 0004

CERTIFICATE OF COMPLETION

Amazon Web Services (AWS) - Hands On

Instructors Vipin Gupta

Karthick P S

Date Sept. 26, 2022
Length 14.5 total hours

10. **Selvi.C.Shobika**, Student of II Year CSE, has successfully completed Internship on "Web Development" from 11.09.2022 to 08.11.2022 offered by Rinex


Rinex Internship Certificate | 2022

This Certificate is awarded to :

RINEX CERTIFICATION WEB DEVELOPMENT

Shobika.C

Has successfully completed Web Development Internship in the month of 11 Sept 2022 to 8 Nov 2022 at Rinex.

Academic Director
Rinex Technology

futurenetwings

11. **Selvi.K.Monika**, Student of II Year CSE, has participated and successfully completed the "**Web Development**" program at Rinex in association with **E-Cell – IIT Bhubaneswar** from 11.09.2022 to 08.11.2022

12. **Selvi.M.Anbu Dharshini**, Student of II Year CSE, has participated and successfully completed the "**Web Development**" program at Rinex in association with **E-Cell – IIT Bhubaneswar** from 11.09.2022 to 08.11.2022

13. **Selvi.T.Sridharini**, Student of II Year CSE, has participated and successfully completed the "**Web Development**" program at Rinex in association with **E-Cell – IIT Bhubaneswar** from 11.09.2022 to 08.11.2022

14. **Selvi.M.Sanjana** student of II Year CSE has participated in the event "**Industrial IoT and Automation**" organized by Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Coimbatore on 15.09.2022

15. **Selvi.D.Swetha,** student of II Year CSE has participated in the event "**Industrial IoT and Automation**" organized by Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Coimbatore on 15.09.2022


SRI KRISHNA
COLLEGE OF ENGINEERING AND TECHNOLOGY

Certificate of Participation

THIS IS TO CERTIFY THAT
Swetha.D
HAS PARTICIPATED IN KRIZEN'22 CONDUCTED BY THE DEPARTMENT OF MECHATRONICS ENGINEERING, OF SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY, COIMBATORE IN THE EVENT OF Industrial IoT and Automation HELD ON 15 SEP 2022 TO COMMEMORATE NATIONAL ENGINEERS' DAY.

FACULTY COORDINATOR (PROF. MADHAN KUMAR S.) HOD (DR. LYDIA M.) PRINCIPAL (DR. JANET J.)

KRIZEN

16. **Selvan.M.M.Premgaanth** and **Selvan.M.Karthick** students of II Year CSE have participated and **Secured First Place** in the event "**Today's Wastage is Tomorrow's Shortage**", Poster Presentation organized by KCT Business School, Coimbatore on 28.09.2022


NM 100

KCT BUSINESS SCHOOL

Certificate
OF APPRECIATION

THIS IS PROUDLY PRESENTED TO :

PREMGAANTH M.M

Who has secured 1st place in the event
" Today's Wastage Is Tomorrow's Shortage "
Poster Competition held at KCT Business School
during N.Mahalingam Ayya's Centenary Year Celebration on
28 September 2022

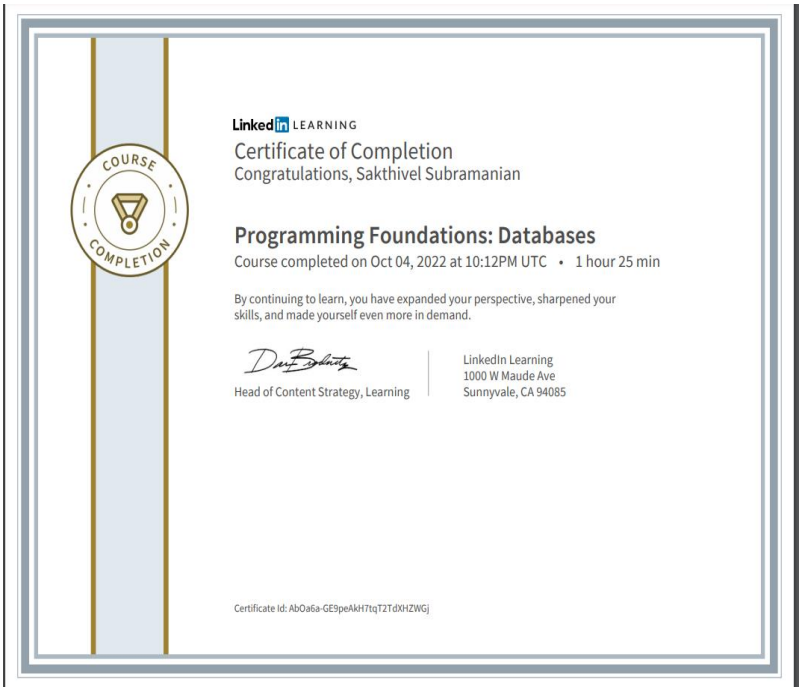
Dr. MARY CHERIAN
Professor & Head

KUMARAGURU Institutions

17. **Selvan.S. Divya Pravin** and **Selvan.A.Rahul Krishnan** students of II Year CSE have participated and **Secured Second Place** in the event "**Today's Wastage is Tomorrow's Shortage**", Poster Presentation organized by KCT Business School, Coimbatore on 28.09.2022

18. **Selvi.S.Hari Priya,** Student of II Year CSE, has successfully completed an online certification course on **"Android Application Development"** offered by Great Learning on September 2022

19. **Selvan.S.Sakthivel,** Student of II Year CSE, has successfully completed an online certification course on **"Programming Foundations: Databases"** offered by Linkedin Learning on 04.10.2022



20. **Selvan. R.Logesh Krishna, Selvan. S.Subhaanandh, Selvan.M.Vishnu, Selvan.M.Karthick, Selvan.M.Karthikeyan and Selvan.B.Deepak** students of III Year CSE have participated in a National Level technical Symposium XPLORE'22 organized by Loyola-ICAM College of Engineering and Technology, Chennai on 08.10.2022

21. **Selvan.M.Karthick** and **Selvi.K.Abinandha** students of III Year CSE have participated and **Won Second Prize** in a Shot in the Dark Event at a National Level Technical Symposium TECHFINIX'22 organized by Paavai Engineering College, Namakkal on 20th and 21st October 2022.

22. **Selvan.R.Rahul** and **Selvi.S.Sahithya** students of III Year CSE have participated and **Won First Prize** in a Interlingual Warble Event at a National Level Technical Symposium TECHFINIX'22 organized by Paavai Engineering College, Namakkal on 20th and 21st October 2022.

23. **Selvan.M.Karthick** and **Selvan.B.Deepak** students of III Year CSE have participated and **Won Second Prize** in Paper Presentation Event at a National Level Technical Symposium TECHFINIX'22 organized by Paavai Engineering College, Namakkal on 20th and 21st October 2022.

24. **Selvan.M.Karthick** student of III Year CSE has participated and **Won Second Prize** in Pace Predator Event at a National Level Technical Symposium TECHFINIX'22 organized by Paavai Engineering College, Namakkal on 20th and 21st October 2022.

25. **Selvan.B. Shughash** and **Selvan.U. Mohammedrasheed** students of II Year CSE have participated in the Code Cracking Event at 12th National Level Technical Symposium CRYOSAT'22 organized by Nandha College of Technology, Erode on 21st October 2022.

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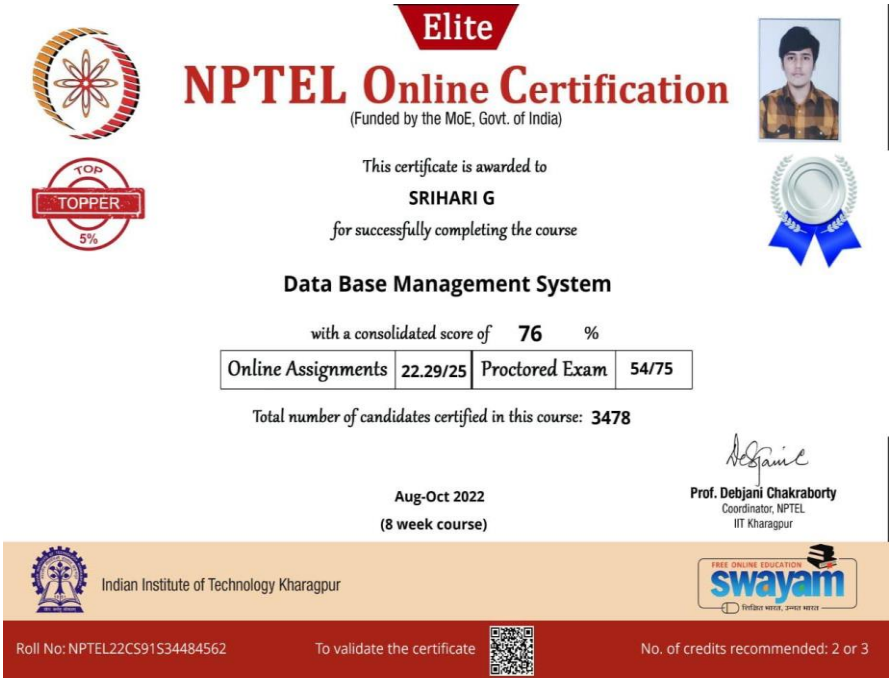
NANDHA Since 1992
Department of
Computer Science and Engineering & Information Technology
Cryosat '22
12th National Level Technical Symposium
CERTIFICATE
OF PARTICIPATION
This is to certify that Mr./Ms. SHUGHASH. B. U. CSE
of Dr. MAHALINGAM COLLEGE OF ENGINEERING and TECHNOLOGY
has participated in Paper Presentation / Project Presentation / Code Cracking/ Multimedia Presentation in the 12th National Level Technical Symposium held on 21st October 2022.
HoD/CSE Mr.R.Sudhakar
HoD/IT Mr.T.Sureshkumar
Principal Dr.S.Nandagopal

26. **Selvan.S.Sakthivel,** Student of II Year CSE, has successfully completed an online certification course on **"Learning SQL Fundamentals"** offered by Linkedin Learning on 23.10.2022

LinkedIn LEARNING
Certificate of Completion
Congratulations, Sakthivel Subramanian
COURSE COMPLETION
Learning SQL Programming
Course completed on Oct 23, 2022 at 07:40AM UTC
By continuing to learn, you have expanded your perspective, sharpened your skills, and made yourself even more in demand.
Head of Content Strategy, Learning
LinkedIn Learning
1000 W Maude Ave
Sunnyvale, CA 94085
CPE SPONSOR QAS
Field of Study: Information Technology
Program: National Association of State Boards of Accountancy (NASBA) | Registry ID: #140940
Continuing Professional Education Credit (CPE): 1.60

27. **Selvan.G.Nandan,** student of III Year CSE has participated in the One day Workshop on "**Frontiers of Blockchain Technology**" organized by Sri Ramakrishna Engineering College, Coimbatore on 31st October 2022.

28. **Selvan.G.Srihari,** student of II Year CSE has Successfully Completed the NPTEL course on "**Data Base Management System**" and awarded with **Elite with Silver Medal.**



29. **Selvan. V.Sharan Prasanth,** student of III Year CSE has participated and secured **First Place** in the **Singles-National level Badminton Championship** held on 23.11.2022 at Mandav, Madhya Pradesh.

30. **Selvan.S.Aswath,** student of II Year CSE has participated in **Analogy-O-Mania** Event at a National Level Techno Cultural Fest EKNA'22 organized by Anna University Regional Campus, Coimbatore on 04th November 2022.

31. **Selvan.P.Gowtham** and **Selvan.M.M.Premgaanth,** students of II Year CSE have participated and **Won First Prize** in the event **Code Triathon** at A National Level Technical Fest INVENTE'22 organized by SSN College of Engineering and Shiv Nadar University, Chennai on 03rd and 04th November 2022


SHIV NADAR UNIVERSITY CHENNAI

invente '22
Create. Elevate. Sustain.
3rd & 4th NOVEMBER

SSN

CERTIFICATE
OF ACHIEVEMENT

OF P. GOWTHAM - DR. MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY
HAS BEEN PLACED FIRST IN THE EVENT CODE TRIATHLON
CONDUCTED AT INVENTE'22 - A NATIONAL LEVEL TECHNICAL FEST ORGANIZED BY
SSN COLLEGE OF ENGINEERING AND SHIV NADAR UNIVERSITY, CHENNAI
ON 3RD AND 4TH NOVEMBER 2022.

Faculty Coordinator

Head of the Department

Sponsored by
TMB SATTVA

32. **Selvan. M.Ashwin** and **Selvan. M.Jagadeesh,** students of III Year CSE have participated and **Won Second Prize** in the event **Code Triathon** at A National Level Technical Fest INVENTE'22 organized by SSN College of Engineering and Shiv Nadar University, Chennai on 03rd and 04th November 2022


SHIV NADAR UNIVERSITY CHENNAI

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Create. Elevate. Sustain.
3rd & 4th NOVEMBER

SSN

CERTIFICATE
OF ACHIEVEMENT

OF M. JAGADEESH - DR. MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY
HAS BEEN PLACED SECOND IN THE EVENT CODE TRIATHLON
CONDUCTED AT INVENTE'22 - A NATIONAL LEVEL TECHNICAL FEST ORGANIZED BY
SSN COLLEGE OF ENGINEERING AND SHIV NADAR UNIVERSITY, CHENNAI
ON 3RD AND 4TH NOVEMBER 2022.

Faculty Coordinator

Head of the Department

Sponsored by
TMB SATTVA

33. **Selvi. D.Swetha,** student of II Year CSE has participated in One Day International Level seminar on "**Deep Learning Techniques on Medical Image Classification**" organized by M.Kumarasamy College of Engineering, Karur held on 11.11.2022


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Thalavapalayam, Karur – 639 113.
INSTITUTION'S INNOVATION COUNCIL
(Ministry of Education Initiative)

Certificate of Participation

This is to certify that

D.Swetha

UG Student, Computer Science and Engineering ,

Dr.Mahalingam College of Engineering and Technology

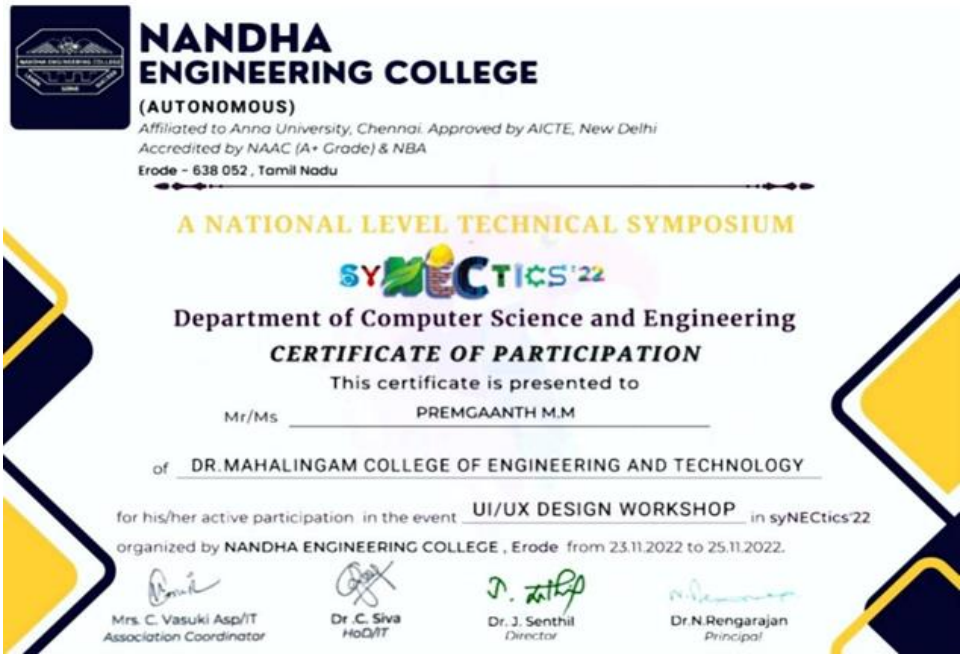
has participated in a One Day International Level Seminar on Deep Learning Techniques on Medical Image Classification on 11.11.2022 organised by the Department of Computer Science and Engineering, M.Kumarasamy College of Engineering, Thalavapalayam, Karur, Tamilnadu, India in virtual mode.

Dr. D. Pradeep
AP-CSE & Coordinator

Dr. S. Thilagamani
HOD-CSE

Dr. N.Ramesh Babu
Principal

34. **Selvan.M.M.Premgaanth,** student of II Year CSE has participated in the Workshop "**UI/UX Design**" organized by Nandha Engineering College, Erode on 23.11.2022


NANDHA ENGINEERING COLLEGE
(AUTONOMOUS)
Affiliated to Anna University, Chennai. Approved by AICTE, New Delhi
Accredited by NAAC (A+ Grade) & NBA
Erode - 638 052 , Tamil Nadu

A NATIONAL LEVEL TECHNICAL SYMPOSIUM

syNECtics'22

Department of Computer Science and Engineering

CERTIFICATE OF PARTICIPATION

This certificate is presented to

Mr/Ms PREMGAANTH M.M

of DR.MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY

for his/her active participation in the event UI/UX DESIGN WORKSHOP in syNECtics'22

organized by NANDHA ENGINEERING COLLEGE , Erode from 23.11.2022 to 25.11.2022.

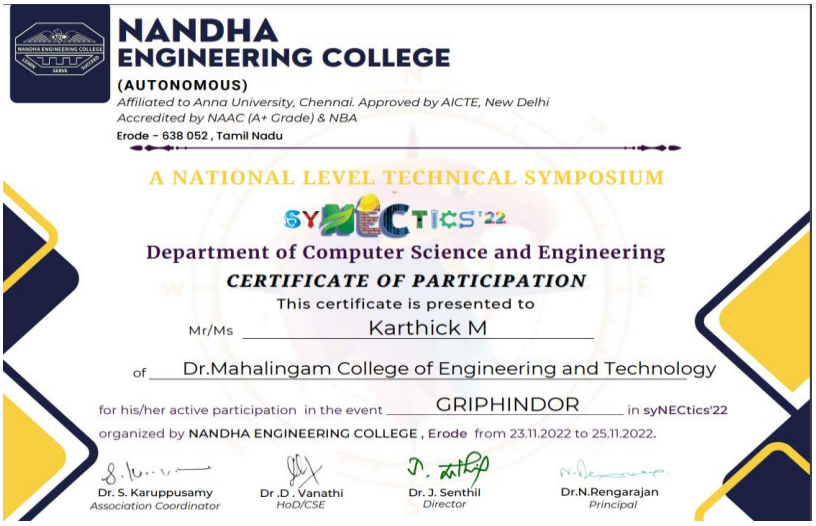
Mrs. C. Vasuki Asp/IT
Association Coordinator

Dr .C. Siva
HoD/IT

Dr. J. Senthil
Director

Dr.N.Rengarajan
Principal

35. **Selvan.M.Karthick Selvan.S. Divya Pravin** and **Selvan. A.Rahul Krishnan,** students of II Year CSE have participated in the event "**GRIPHINDOR**" organized by Nandha Engineering College, Erode on 23.11.2022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Accredited by NAAC (A+ Grade) & NBA
Erode - 638 052, Tamil Nadu
A NATIONAL LEVEL TECHNICAL SYMPOSIUM
syNECTICS'22
Department of Computer Science and Engineering
CERTIFICATE OF PARTICIPATION
This certificate is presented to
Mr/Ms Karthick M
of Dr.Mahalingam College of Engineering and Technology
for his/her active participation in the event GRIPHINDOR in syNECtics'22
organized by NANDHA ENGINEERING COLLEGE, Erode from 23.11.2022 to 25.11.2022.
Dr. S. Karuppusamy, Association Coordinator
Dr.D. Vanathi, HoD/CSE
Dr. J. Senthil, Director
Dr.N.Rengarajan, Principal


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Department of Computer Science and Engineering
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This certificate is presented to
Mr/Ms Divya pravin S
of Dr.Mahalingam College of Engineering and Technology
for his/her active participation in the event GRIPHINDOR in syNECtics'22
organized by NANDHA ENGINEERING COLLEGE, Erode from 23.11.2022 to 25.11.2022.
Dr. S. Karuppusamy, Association Coordinator
Dr.D. Vanathi, HoD/CSE
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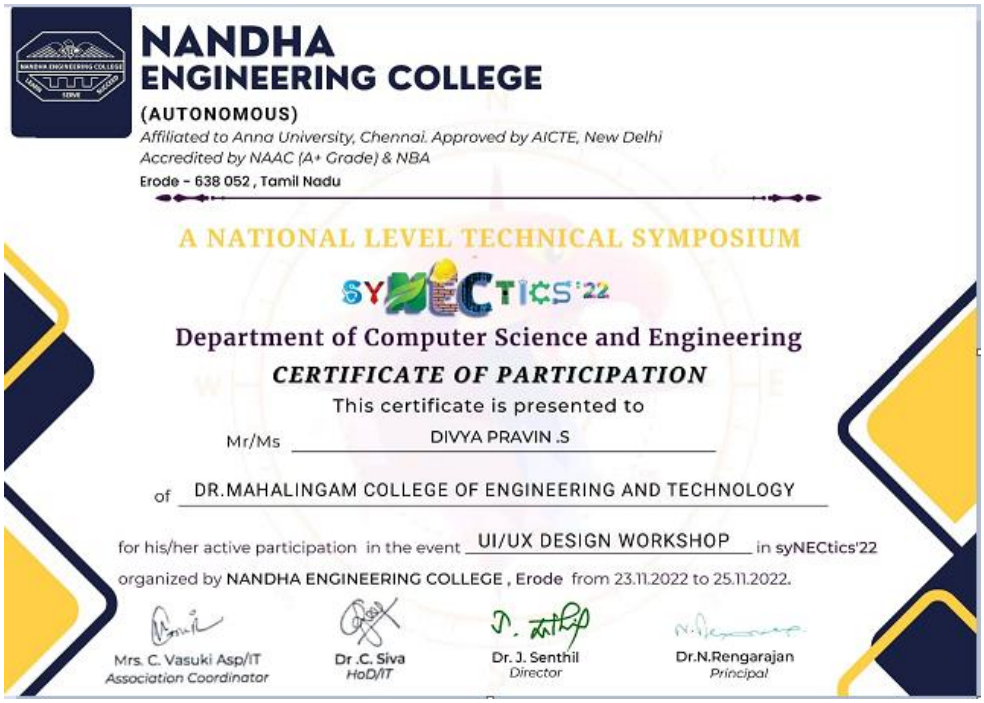
This certificate is presented to
Mr/Ms RAHUL KRISHNAN.A
of MAHALINGAM COLLEGE OF ENGINEERING(II YEAR)
for his/her active participation in the event GRIPHINDOR in syNECtics'22
organized by NANDHA ENGINEERING COLLEGE, Erode from 23.11.2022 to 25.11.2022.
Dr. S. Karuppusamy, Association Coordinator
Dr.D. Vanathi, HoD/CSE
Dr. J. Senthil, Director
Dr.N.Rengarajan, Principal

36. **Selvan.S.Divya Pravin,** student of II Year CSE has participated in the Workshop "**UI/UX Design**" organized by Nandha Engineering College, Erode on 23.11.2022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This certificate is presented to

Mr/Ms DIVYA PRAVIN .S

of DR.MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY

for his/her active participation in the event UI/UX DESIGN WORKSHOP in syNECtics'22

organized by NANDHA ENGINEERING COLLEGE, Erode from 23.11.2022 to 25.11.2022.

Mrs. C. Vasuki Asp/IT, Association Coordinator | Dr .C. Siva, HoD/IT | Dr. J. Senthil, Director | Dr.N.Rengarajan, Principal

37. **Selvan.A.Rahul Krishnan,** student of II Year CSE has participated in the Workshop "**UI/UX Design**" organized by Nandha Engineering College, Erode on 23.11.2022


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CERTIFICATE OF PARTICIPATION

This certificate is presented to

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of DR.MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY

for his/her active participation in the event UI/UX DESIGN WORKSHOP in syNECtics'22

organized by NANDHA ENGINEERING COLLEGE, Erode from 23.11.2022 to 25.11.2022.

Mrs. C. Vasuki Asp/IT, Association Coordinator | Dr .C. Siva, HoD/IT | Dr. J. Senthil, Director | Dr.N.Rengarajan, Principal

38. **Selvan.M.Karthick,** student of II Year CSE have participated in the Workshop "**UI/UX Design**" organized by Nandha Engineering College, Erode on 23.11.2022

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Mr/Ms KARTHICK.M

of DR.MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY

for his/her active participation in the event UI/UX DESIGN WORKSHOP in syNECtics'22

organized by NANDHA ENGINEERING COLLEGE, Erode from 23.11.2022 to 25.11.2022.

Mrs. C. Vasuki Asp/IT, Association Coordinator
Dr .C. Siva, HoD/IT
Dr. J. Senthil, Director
Dr.N.Rengarajan, Principal

39. **Selvan.R. Sanjeevdharan** and **Selvan.J. Mohammad Faisal** students of II Year CSE have participated and **Won Third Prize** in the event **Android Campus Fest 2022** organized by Sahrdaya College of Engineering & Technology, Thrissur Kerala on 02nd December 2022.

40. **Selvan.S.Aswath, Selvan.S. Arunkumar, Selvan.S.R.Tharan, Selvan.P.M. Bhuvanesh Kumar, Selvan.B. Shughash Selvan.U. Mohammedrasheed, Selvan.M. Thiruppathi Selvan.R. Sanjeevdharan** and **Selvan.J. Mohammad Faisal** students of II Year CSE have participated in the event **Android Campus Fest 2022** organized by Sahrdaya College of Engineering & Technology, Thrissur Kerala on 02nd December 2022.

Dr.Mahalingam College of Engineering and Technology, Pollachi – 642003

Department of Computer Science and Engineering

CSE Newsletter

Faculty Achievements

1. **Mr.S.Senthil Prabhu, AP/CSE** has participated and successfully completed the Five Days Online FDP on "**Recent Trends in Cyber Security & Blockchain Technology**" organized by Department of Information Technology, Oriental Institute of Science and Technology, Bhopal from 28.06.2022 to 02.07.2022


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Email: oisthodau@oriental.ac.in Website: www.oriental.ac.in

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

from Dr.Mahalingam College Of Engineering And Technology

has successfully completed Five Days online FDP on **"Recent Trends in Cyber Security & Blockchain Technology"** jointly organized by Department of Computer Science & Engineering and Department of Information Technology, Oriental Institute of Science & Technology, Bhopal from 28th June – 02nd July 2022.

Prof. Shadab Pasha Khan (Coordinator) Asso. Prof., IT, OIST
Dr. Deepshikha Patel (Coordinator) Asso. Prof., CSE,OIST
Dr. Shrikant Zade HOD CSE, OIST
Prof. Pratik Buchke HOD IT, OIST
Dr Rajesh K Shukla Director OIST

2. **Ms.G.Gayathri, AP/CSE** has participated and successfully completed the Five Days Online FDP on "**Recent Trends in Cyber Security & Blockchain Technology**" organized by Department of Information Technology, Oriental Institute of Science and Technology, Bhopal from 28.06.2022 to 02.07.2022


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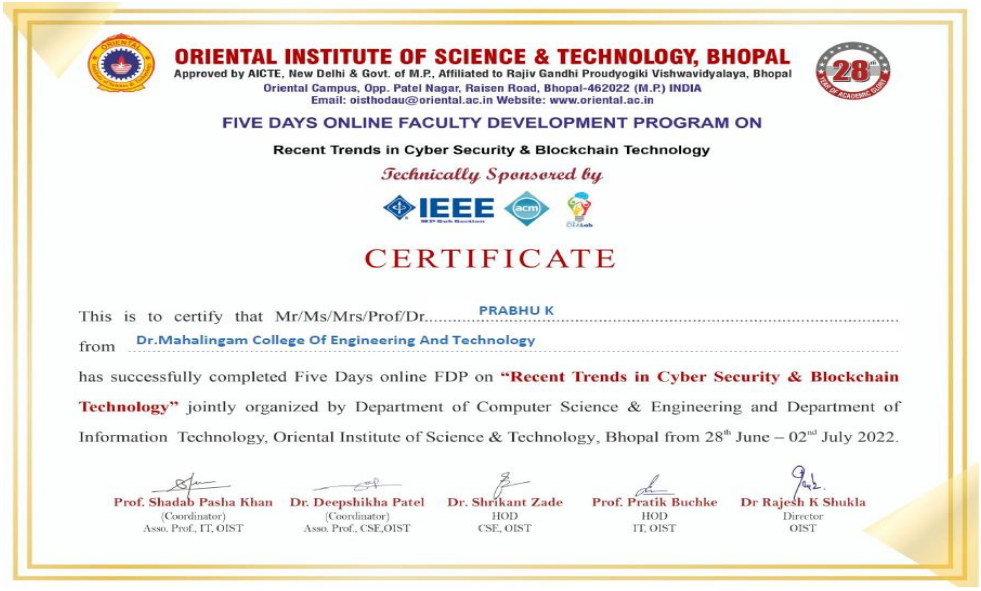
from Dr.mahalingam college of engineering and technology

has successfully completed Five Days online FDP on **"Recent Trends in Cyber Security & Blockchain Technology"** jointly organized by Department of Computer Science & Engineering and Department of Information Technology, Oriental Institute of Science & Technology, Bhopal from 28th June – 02nd July 2022.

Prof. Shadab Pasha Khan (Coordinator) Asso. Prof., IT, OIST
Dr. Deepshikha Patel (Coordinator) Asso. Prof., CSE,OIST
Dr. Shrikant Zade HOD CSE, OIST
Prof. Pratik Buchke HOD IT, OIST
Dr Rajesh K Shukla Director OIST

3. **Mr.K.Prabhu, AP/CSE** has participated and successfully completed the Five Days Online FDP on "**Recent Trends in Cyber Security & Blockchain Technology**" organized by Department of Information Technology, Oriental Institute of Science and Technology, Bhopal from 28.06.2022 to 02.07.2022



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has successfully completed Five Days online FDP on **"Recent Trends in Cyber Security & Blockchain Technology"** jointly organized by Department of Computer Science & Engineering and Department of Information Technology, Oriental Institute of Science & Technology, Bhopal from 28th June – 02nd July 2022.

Prof. Shadab Pasha Khan	Dr. Deepshikha Patel	Dr. Shrikant Zade	Prof. Pratik Buchke	Dr Rajesh K Shukla
(Coordinator)	(Coordinator)	HOD	HOD	Director
Asso. Prof., IT, OIST	Asso. Prof., CSE,OIST	CSE, OIST	IT, OIST	OIST

4. **Ms.P.Banumathi, AP/CSE** has participated and successfully completed the Five Days Online FDP on "**Recent Trends in Cyber Security & Blockchain Technology**" organized by Department of Information Technology, Oriental Institute of Science and Technology, Bhopal from 28.06.2022 to 02.07.2022

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Prof. Shadab Pasha Khan	Dr. Deepshikha Patel	Dr. Shrikant Zade	Prof. Pratik Buchke	Dr Rajesh K Shukla
(Coordinator)	(Coordinator)	HOD	HOD	Director
Asso. Prof., IT, OIST	Asso. Prof., CSE,OIST	CSE, OIST	IT, OIST	OIST

5. **Mr.V.Eswaramurthy, AP/CSE** has participated and successfully completed the Five Days Online FDP on "**Recent Trends in Cyber Security & Blockchain Technology**" organized by Department of Information Technology, Oriental Institute of Science and Technology, Bhopal from 28.06.2022 to 02.07.2022

ORIENTAL INSTITUTE OF SCIENCE & TECHNOLOGY, BHOPAL

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from Dr.Mahalingam College Of Engineering And Technology

has successfully completed Five Days online FDP on **"Recent Trends in Cyber Security & Blockchain Technology"** jointly organized by Department of Computer Science & Engineering and Department of Information Technology, Oriental Institute of Science & Technology, Bhopal from 28th June – 02nd July 2022.

Prof. Shadab Pasha Khan	Dr. Deepshikha Patel	Dr. Shrikant Zade	Prof. Pratik Buchke	Dr Rajesh K Shukla
(Coordinator)	(Coordinator)	HOD	HOD	Director
Asso. Prof., IT, OIST	Asso. Prof., CSE,OIST	CSE, OIST	IT, OIST	OIST

6. **Mr.V.Eswaramurthy, AP/CSE**, has participated and successfully completed the 10 – Days National FDP on "**Unleashing Emerging Research Trends and Advancements in Computer Science**" from 04th July to 14th July, 2022 Organized by School of Computer Science and Engineering, VIT-AP University, Amaravati.

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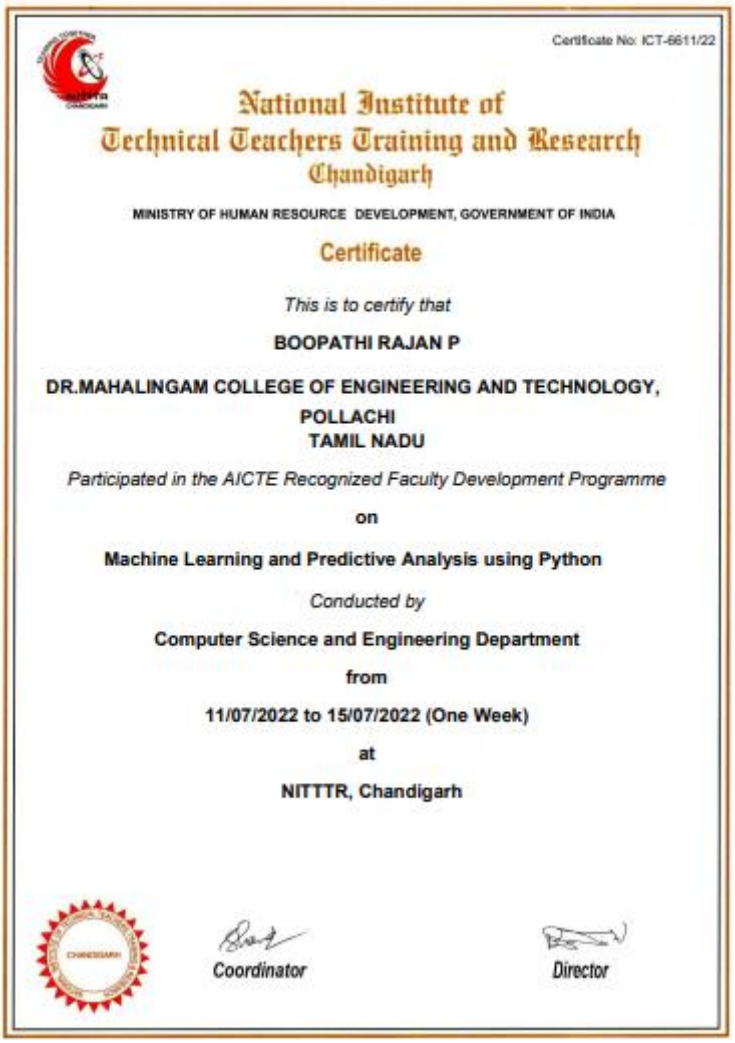
This is to certify that **V.Eswaramurthy, DR.MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY** has successfully participated in the **10-Days National FDP on Unleashing Emerging Research Trends and Advancements in Computer Science,** organised by School of Computer Science and Engineering, VIT-AP University, Amaravati from 4th July to 14th July 2022.

Dr. S.V. Sudha
Dean - SCOPE
VIT-AP University

Dr. S.V. Kota Reddy
Vice Chancellor
VIT-AP University

7. **Mr.P.Boopathirajan, AP(SS)/CSE**, has participated and successfully completed the Five Days FDP on "**Machine Learning and Predictive Analysis using Python**" from 11.07.2022 to 15.07.2022 Organized by Department of Computer Science and Engineering, NITTTR, Chandigarh



Certificate No: ICT-6611/22

National Institute of
Technical Teachers Training and Research
Chandigarh

MINISTRY OF HUMAN RESOURCE DEVELOPMENT, GOVERNMENT OF INDIA

Certificate

This is to certify that

BOOPATHI RAJAN P

DR.MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY,
POLLACHI
TAMIL NADU

Participated in the AICTE Recognized Faculty Development Programme

on

Machine Learning and Predictive Analysis using Python

Conducted by

Computer Science and Engineering Department

from

11/07/2022 to 15/07/2022 (One Week)

at

NITTTR, Chandigarh

Coordinator

Director

8. **Dr.A.Noble Mary Juliet, Assoc.Prof** has participated in AWS Builders Online Series on 14.07.2022 organized by Amazon.

CERTIFICATE OF ATTENDANCE

THIS CERTIFICATE IS AWARDED TO

Noble Mary Juliet

ON 14 JULY, 2022

9. **Mr.V.Eswaramurthy, AP/CSE**, has participated and successfully completed the Six Days National FDP on "**GE3151 – Problem Solving and Python Programming**" from 18th July to 23rd July, 2022 Organized by Department of Computer Science and Engineering, M.Kumarasamy College of Engineering, Karur.


CERTIFICATE

CENTRE FOR FACULTY DEVELOPMENT
ANNA UNIVERSITY :: CHENNAI - 600 025

V. Eswaramurthy., Assistant Professor
Dr. Mahalingam College of Engineering & Technology., Coimbatore
took part in the six-day Faculty Development Training Programme on
GE 3151 - Problem Solving and Python Programming conducted in
ONLINE MODE by the Department of Computer Science & Engineering
at M. Kumarasamy College of Engineering., Karur
from 18.07.2022 to 23.07.2022

COORDINATOR(S) with Name
Dr. D. Pradeep AP-CSE
Dr. S. Thilagamani HOD-CSE
DIRECTOR
CENTRE FOR FACULTY DEVELOPMENT
REGISTRAR
ANNA UNIVERSITY

10. **Mr.K.Prabhu, AP/CSE**, has participated and successfully completed the Six Days National FDP on "**GE3151 – Problem Solving and Python Programming**" from 18th July to 23rd July, 2022 Organized by Department of Computer Science and Engineering, M.Kumarasamy College of Engineering, Karur.


CERTIFICATE

CENTRE FOR FACULTY DEVELOPMENT
ANNA UNIVERSITY :: CHENNAI - 600 025

K. Prabhu., Assistant Professor
Dr. Mahalingam College of Engineering & Technology., Coimbatore
took part in the six-day Faculty Development Training Programme on
GE 3151 - Problem Solving and Python Programming conducted in
ONLINE MODE by the Department of Computer Science & Engineering
at M. Kumarasamy College of Engineering., Karur
from 18.07.2022 to 23.07.2022

COORDINATOR(S) with Name
Dr. D. Pradeep AP-CSE
Dr. S. Thilagamani HOD-CSE
DIRECTOR
CENTRE FOR FACULTY DEVELOPMENT
REGISTRAR
ANNA UNIVERSITY

11. **Mr.S.Senthil Prabhu, AP/CSE**, has participated and successfully completed the Six Days National FDP on "**GE3151 – Problem Solving and Python Programming**" from 18th July to 23rd July, 2022 Organized by Department of Computer Science and Engineering, M.Kumarasamy College of Engineering, Karur.


CERTIFICATE

CENTRE FOR FACULTY DEVELOPMENT
ANNA UNIVERSITY :: CHENNAI - 600 025

S.Senthil Prabhu, Assistant Professor
Dr. Mahalingam College of Engineering & Technology, Coimbatore
took part in the six-day Faculty Development Training Programme on
GE 3151 - Problem Solving and Python Programming conducted in
ONLINE MODE by the Department of Computer Science & Engineering
at Kumaraswamy College of Engineering, Karur
from 18.07.2022 to 23.07.2022

COORDINATOR(S) with Name
Dr.D.Pradeep AP-CSE
Dr.L.Thilagamani HOD-CSE
DIRECTOR
CENTRE FOR FACULTY DEVELOPMENT
REGISTRAR
ANNA UNIVERSITY

12. **Dr.G.Anupriya, Professor & Head of CSE** has published a paper titled **"Twitter Bot Detection using one-class classifier and Topic Analysis"** in Inventive Systems and Control Proceedings of ICISC 2022 , Lecture Notes in Networks and Systems, Vol 436, pp 789–799, Springer, Singapore, August 2022.


Springer Link Search Log in

Inventive Systems and Control pp 789–799

Twitter Bot Detection Using One-Class Classifier and Topic Analysis

Anupriya Rajkumar, C. Rakesh, M. Kalaivani & G. Arun

Conference paper | First Online: 02 August 2022
133 Accesses

Part of the Lecture Notes in Networks and Systems book series (LNNS,volume 436)

Abstract

Social media has emerged as the primary means of information sharing over the last few years. Twitter is a popular social media platform. However, increasingly twitter bots which are autonomous software agents are used to spread misinformation, false propaganda and influence public opinion. This paper outlines the design and development of a machine learning-based approach for classifying a twitter account as a bot or genuine user account. A one-class classifier coupled with account-based and tweet-based features has yielded an F-measure of

13. **Dr.N.Gobi, AP(SG)/CSE** has published a paper titled **"A Hybrid Mayfly-Aquila Optimization Algorithm Based Energy-Efficient Clustering Routing Protocol for Wireless Sensor Networks**" in Journal of Sensors "Vol 22, Issue : 17, pp 6405-6430, EISSN 1424-8220

sensors

MDPI

Article

A Hybrid Mayfly-Aquila Optimization Algorithm Based Energy-Efficient Clustering Routing Protocol for Wireless Sensor Networks

Gobi Natesan [1], Srinivas Konda [2], Rocío Pérez de Prado [3,*] and Marcin Wozniak [4,*]

[1] Department of Computer Science and Engineering, Dr. Mahalingam College of Engineering and Technology, Pollachi 642003, Tamilnadu, India
[2] Department of Data Science, CMR Technical Campus, Hyderabad 501401, Telangana, India
[3] Telecommunication Engineering Department, University of Jaén, 23700 Linares, Spain
[4] Faculty of Applied Mathematics, Silesian University of Technology, 44-100 Gliwice, Poland
* Correspondence: rperez@ujaen.es (R.P.d.P.); marcin.wozniak@polsl.pl (M.W.)

Abstract: In recent times, Wireless Sensor Networks (WSNs) are becoming more and more popular and are making significant advances in wireless communication thanks to low-cost and low-power sensors. However, since WSN nodes are battery-powered, they lose all of their autonomy after a certain time. This energy restriction impacts the network's lifetime. Clustering can increase the lifetime of a network while also lowering energy use. Clustering will bring several similar sensors to one location for data collection and delivery to the Base Station (BS). The Cluster Head (CH) uses more energy when collecting and transferring data. The life of the WSNs can be extended, and efficient identification of CH can minimize energy consumption. Creating a routing algorithm that considers the key challenges of lowering energy usage and maximizing network lifetime is still challenging. This paper presents an energy-efficient clustering routing protocol based on a hybrid Mayfly-Aquila optimization (MFA-AOA) algorithm for solving these critical issues in WSNs. The Mayfly algorithm is employed to choose an optimal CH from a collection of nodes. The Aquila optimization algorithm identifies and selects the optimum route between CH and BS. The simulation results showed that the proposed methodology achieved better energy consumption by 10.22%, 11.26%, and 14.28%, and normalized energy by 9.56%, 11.78%, and 13.76% than the existing state-of-art approaches.

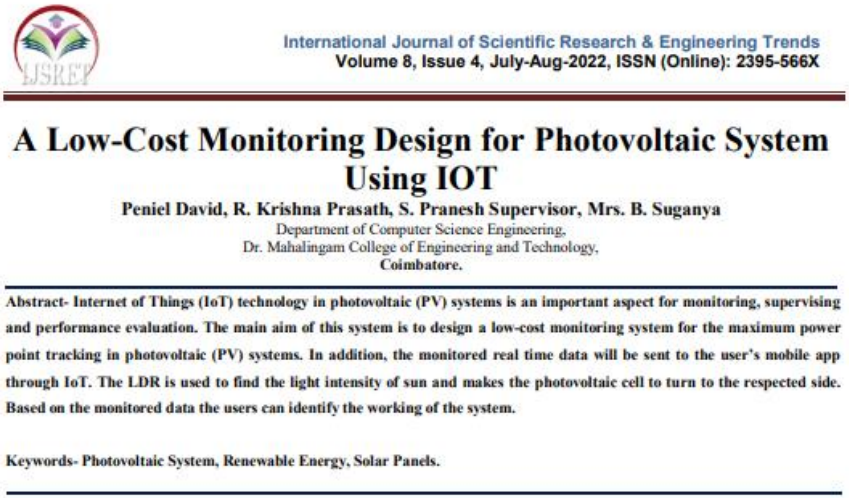
Keywords: Aquila optimization algorithm; cluster head; mayfly; routing protocol; wireless sensor networks

check for updates

Citation: Natesan, G.; Konda, S.; de Prado, R.P.; Wozniak, M. A Hybrid Mayfly-Aquila Optimization Algorithm Based Energy-Efficient Clustering Routing Protocol for Wireless Sensor Networks. *Sensors* **2022**, *22*, 6405. https://doi.org/10.3390/s22176405

Academic Editor: Hsiao-Chun Wu

14. **Ms.B.Suganya, AP/CSE** has published a paper titled **"A Low-Cost Monitoring Design for Photovoltaic System Using IoT"** in International Journal of Scientific Research & Engineering Trends Vol 8, Issue 4, pp : 1949-1951, ISSN (Online): 2395-566X



International Journal of Scientific Research & Engineering Trends
Volume 8, Issue 4, July-Aug-2022, ISSN (Online): 2395-566X

A Low-Cost Monitoring Design for Photovoltaic System Using IOT

Peniel David, R. Krishna Prasath, S. Pranesh Supervisor, Mrs. B. Suganya
Department of Computer Science Engineering,
Dr. Mahalingam College of Engineering and Technology,
Coimbatore.

Abstract- Internet of Things (IoT) technology in photovoltaic (PV) systems is an important aspect for monitoring, supervising and performance evaluation. The main aim of this system is to design a low-cost monitoring system for the maximum power point tracking in photovoltaic (PV) systems. In addition, the monitored real time data will be sent to the user's mobile app through IoT. The LDR is used to find the light intensity of sun and makes the photovoltaic cell to turn to the respected side. Based on the monitored data the users can identify the working of the system.

Keywords- Photovoltaic System, Renewable Energy, Solar Panels.

15. **Dr.M.Pandi, Associate Professor/CSE, Dr.N.Senthilmadasamy, Associate Professor/CSE**, has published a paper titled **"Machine Learning Techniques for Real Estate Prediction"** in Positif Journal, Vol 22, Issue 8, pp 308-313, ISSN No: 0048-4911

Positif Journal **Issn No : 0048-4911**

Machine Learning Techniques for Real Estate Prediction

Dr.M.Balakrishnan[1], Dr.M.Pandi[2], K.Ananthi[3], and Dr.N.Senthilmadasamy[4]

[1]Associate Professor/AI&DS,[2,4]Associate Professor/CSE, [3]Assistant Professor/AI&DS
[1,2,3,4]Dr.Mahalingam College of Engineering and Technology, Pollachi, Coimbatore – 642003, Tamil Nadu, India.

Abstract. *Prediction algorithms are now widely used in almost every field. The demand for forecasting has increased. It became more popular and useful as a result of this tool. As a result, the majority of us choose for forecasting. the majority of the time However, there are certain exceptions. Most of us don't consider the disadvantages. the section that was scheduled to take place following the prognosis. The forecast is to come up with a rough estimate, however are also able to make advantage of the anticipated outcome for future use The more we use it, the better. Our final result will be of projected value. achieve great usefulness in the future People are growing increasingly interested in learning new things. about the value of real estate and their predictions. Among them, the value of real estate stands out because it is one of the fixed assets. Real estate is concerned with land, which is the most important resource for everyone. The value of land and houses will be directly tied to the growth and decline of the country's economy. Economic growth will be forecasted by taking real estate into account as one of its characteristics. The home is the place where we all live, so it is a requirement for everyone who lives on this planet. For a youngster, the environment in which they live and how they are raised will influence their development of positive attributes. While estimating its worth, the environment and surrounds are also important considerations. However, the majority of us will just assess the building's exterior aspects, while the true ups and downs in price values are determined by the additional surrounding environments that are located nearby. The main goal of the concept is to identify some of the options after making a successful prediction in addition to estimating the price. As a result, the forecast will not only be the end of the notion, but also the start of a new one.*

Keywords: *Property prediction, Find the possibilities of new insights, Machine Learning methods.*

16. **Mr.K.Prabhu, AP/CSE,** has participated and successfully completed the Five Days Online FDP on "**Designing and Modelling of IoT, AI & ML Systems**" organized by AICTE, ATAL Academy, Arm Education and STMicroelectronics from 01.08.2022 to 05.08.2022

17. **Dr.N.Senthil Madasamy, Assoc.Prof/CSE** has participated in the **IIC regional Meet** held at PSNA College of Engineering and Technology, Madurai on 08.08.2022

18. **Mr.K.Prabhu, AP/CSE** has participated and successfully completed the one week FDP on "**Amazon Web Services**" organized by M.Kumarasamy College of Engineering, Karur in collaboration with AICTE and Brainovision Solutions India Pvt Ltd from 22.08.2022 to 27.08.2022

19. **Mr.K.Radha, AP/CSE** has participated and successfully completed the Short Term Training Programme on "Data Science" organized by Department of Information Technology, Vivekanandha College of Technology for Women, Namakkal from 22.08.2022 to 27.08.2022


VIVEKANANDHA
COLLEGE OF TECHNOLOGY FOR WOMEN
Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai.
Elayampalayam - 637 205, Tiruchengode, Namakkal (Dt.), Tamil Nadu.
INSTITUTION'S INNOVATION COUNCIL
DEPARTMENT OF INFORMATION TECHNOLOGY
Certificate of Participation
This is to certify that Mr./Ms./Dr. K. RADHA, AP/CSE of Dr.MAHALINGAM COLLEGE OF ENGG & TECHNOLOGY has Participated in Short Term Training programme on "DATA SCIENCE" organized by Department of IT from 22.08.2022, to 27.08.2022.
Dr. D. SATHIYA HOD (IT)
Dr. M. DEVI Principal
Prof. Dr. S. KUPPUSWAMI Executive Director
Prof. Dr. M. KARUNANITHI Chairman & Secretary

20. **Dr.M.Pandi, Associate Professor/CSE**, has published a paper titled **"Cipher Text Policy Attribute Based Encryption Model for Data Protection in Cloud Computing Environment"** in Positif Journal, Vol 22, Issue 9, pp 243-249, ISSN No: 0048-4911

Positif Journal **Issn No : 0048-4911**

Cipher Text Policy Attribute Based Encryption Model for Data Protection in Cloud Computing Environment

Dr N Sadhasivam[1], Adaikkammai.A[2], Dr M Pandi[3]

[1]Associate Professor, Department of Computer Science Engineering, GST, GITAM University, Bangalore
[2]Associate Professor, Department of CSE, S.A. Engineering College, Chennai, Tamil Nadu
[3]Associate Professor, Department of CSE, Dr Mahalingam College of Engineering & Technology, Pollachi. Tamilnadu
Corresponding Author Email id: snarayan@gitam.edu

Abstract: Cloud computing is a type of data storage that enables customers to access their information from any location. The cloud service provider offers a number of platforms. Software as a Service (SaaS), Platform as a Service (PaaS), and Infrastructure as a Service are a few examples (IaaS). Even if cloud service providers may not always provide proper security to keep up with technological changes, cloud computing is projected to be an updated technology. The proxy was used to restore the data if it got corrupted, and the data was saved securely on the cloud. The security and integrity objectives were thus accomplished. This is enhanced by the addition of effective file retrieval by a third-party user Data owners encrypt the data files and provide each user a unique set of access rights to their data. For file encryption, the data owner provides a secret key (SK). Data owner offers file description and user public key selection. The file is encrypted with SK before being sent to the user. Data will be encrypted using a public key (PK) and SK. Data is encrypted by the data owner using symmetric key (AES), which encrypts and decrypts data using the same key. The security of cloud computing is provided for consumers through encrypted data in the cloud. In order to protect the data from potential attackers, the data owner should encrypt the data before uploading it to the cloud server. We propose attribute based Encryption model for cloud-based data protection. The proposed approach offers a solution to several cloud security challenges, such as data protection from violations and protection from users who masquerade as authorized users but are actually not, which has a negative impact on cloud security.

Keywords- *Cloud Computing, Security, Third Party Auditor (TPA), Proxy, RSA Algorithm, Regeneration, Multiuser Authentication, PDP, ID-PDP, CP-ABE.*

21. **Mr.K.Prabhu**, Assistant Professor/CSE has published a paper titled **"Integrating Machine Learning and Quantum Annealing to Detect Online Credit Card Fraud"** in Journal of Xidian University "Vol 16, Issue 9,pp 58-67, ISSN No:1001-2400

Journal of Xidian University https://doi.org/10.37896/jxu16.9/005 ISSN No:1001-2400

Integrating Machine Learning and Quantum Annealing to Detect Online Credit Card Fraud

Prabhu R[1], Prabhu K[2], Srihari Shankar S M[3], Sathiyapriya T[4]

[1] Department of IT, Karpagam College of Engineering, Coimbatore, Tamilnadu
[2] Department of CSE, Dr Mahalingam College of Engineering and Technology, Coimbatore, Tamilnadu
[3] Department of CSE, Jansons Institute of Technology, Coimbatore, Tamilnadu
[4] Department of ECE, Dr Mahalingam College of Engineering and Technology, Coimbatore, Tamilnadu

Abstract

The usage of machine learning algorithm in the detection of fraudulent transactions is becoming more common. Most application systems, on the other hand, only catch fraudulent activity after it has already taken place, rather than in real time. Detecting fraud is difficult because there are considerably fewer erroneous transactions than legitimate ones. This data imbalance necessitates methods other than machine learning to handle it. Quantum machine learning (QML) has been used to develop a detection framework, which was then, implemented using SVMs supplemented with quantum annealing solvers. A total of twelve machine learning algorithms have been applied to test QML's detection capability, and their results have been compared to those of the QML application on two datasets: a non-time series of Israeli credit card transactions and a time series of Israeli bank loan applications. The results reveal that, using the bank loan dataset, the quantum augmented SVM overtakes the others in relationships of both speed and accuracy. The detection accuracy is comparable to those that use Israel credit card transaction data. By the detection time can be greatly improved for both datasets by using feature selection, although the increase in accuracy is minor. QML applications on time series data with significant imbalance have been shown to have promise, whereas standard machine learning methodologies have been shown to have worth when dealing with non-time series data, as these results show. This research sheds light on how to choose the best technique for various datasets while keeping in mind the trade-offs between speed, accuracy, and price.

Index Terms: Fraud detection, deep learning, machine learning, CCF.

22. **Dr.N.Gobi**, AP(SG)/CSE has published a paper titled "**Spam Review Identification Metrics for Distinguishing the Honest Reviews from Fake Reviews**" in Journal of PERIODICO di MINERALOGIA Vol 91, Issue 5, ISSN : 0369-8963, pp 513-544

PERIODICO di MINERALOGIA
ISSN: 0369-8963
Volume 91, No. 5, 2022

Spam Review Identification Metrics for Distinguishing the Honest Reviews from Fake Reviews

DR.GOBI NATESAN,
Assistant Professor, Department of CSE,
Dr. Mahalingam College of Engineering and Technology,
Pollachi, Coimbatore, Tamilnadu, India-642003.

MRS.K.BALASARANYA,
Assistant Professor,
Department of Computer Science and Engineering,
R.M.D. Engineering College,

ABSTRACT:

Sentiment Analysis (SA) systems are quite popular nowadays since most people trust them to make decisions on products, services, and news analytics, among other things, based on the reviews expressed by the end users. Customers will employ Sentiment Analysis tools to select new products from a variety of options available. Manufacturers can use the implemented system to known about their products' strengths and weaknesses.

At present the sad aspect is that, many spammers post the irrelevant or fake reviews about certain products to increase or decrease its market share among others. Sentiment Analysis systems have a difficult time deploying methodology to identify whether each review is either honest or spam and also to known whether it was made by individual spammers or spammer groups after experiencing the products.

The suggested system will provide solution to the problem faced above by utilizing Text pre-processing as the best place to start when it comes to increasing the overall effectiveness of sentiment analysis systems. Subsequently, an innovative spam review detection approach namely Spam Review Identification Metrics (SRIM) is implemented based on several factors determined through review level and reviewer level characteristics to classify the review as honest or fake present in the Review dataset. Multilayer Perceptron (MLP) classifier is used to identify the given review as spam or honest and performs well when compared to other classifiers like Naïve Bayes and Decision Tree techniques. An interesting observation is that, although the performance of positive sentiment identification by the Naïve Bayes and Decision Tree outperforms well by 2.28% and 1.45% more than MLP. However, MLP produced good results for negative sentiment related reviews by 2.36% and 4.37 % more than NB and DT methods.

 https://doi.org/10.37896/pd91.5/91538

23. **Mr.K.Prabhu, Mr.S.Senthil Prabhu** Assistant Professor/CSE, have presented a paper titled **"Automatic Speech Emotion Recognition using Multivariant Linear Regression"** in International Conference on Computational Linguistics and Natural Language Processing (ICCLNLP'2022) Organized by Dr.N.G.P. Institute of Technology, Coimbatore in association with SERB on 14.09.2022 and 15.09.2022

Dr. N.G.P. INSTITUTE OF TECHNOLOGY
(An Autonomous Institution)
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai, Recognized by UGC & Accredited by NAAC with A+ Grade and NBA (IME,CSE,ECE,EEE &Mechanical). Kalapatti Road, Coimbatore - 641048.
Department of Computer Science and Engineering
in association with
Science and Engineering Research Board (SERB)

CERTIFICATE

International Conference on Computational Linguistics and Natural Language Processing (ICCLNLP'22)

This is to certify that Mr.K.PRABHU of Dr.NAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY has presented a paper titled AUTOMATIC SPEECH EMOTION RECOGNITION USING MULTIVARIANT LINEAR REGRESSION in the " International Conference on Computational Linguistics and Natural Language Processing " organized by Dept of CSE, NGP iTech on 14th & 15th September, 2022.

Conference Co Chair
Dr.J.Shanthini

Conference Chair
Dr.D.Palanikkumar

Principal
Dr.S.U.Prabha

AUTOMATIC SPEECH EMOTION RECOGNITION USING MULTIVARIANT LINEAR REGRESSION

Prabhu K,Senthil Prabhu

ABSTRACT

Speech emotion recognition (SER) systems is a collection of data and methodologies that process and classify speech signals to detect the embedded emotions like sad, happy, angry etc using machine learning. Emotion plays a significant role in daily interpersonal human interactions. The mental state of an individual can be identified using SER. Automatic emotion recognition is opened up with a new field which has basic goals to understand and retrieve desired emotions. For a combining feature set, it is composed of many kinds of features containing more emotional information which are mostly preferred by researchers. By using different classifiers and different methods for feature extraction, speech emotion recognition can be achieved. However, using a combining feature set may give rise to high dimension and redundancy of speech features; thereby, using three machine learning algorithms like multivariate linear regression, support vector machine, and recurrent neural network to classify seven emotions. Speech emotion recognition project is a combination of three machine learning algorithms to classify emotion in the form of continuity emagen(emojis) using machine learning.

Key words: Speech emotion recognition (SER), multivariant linear regression, support vector machine, recurrent neural network.

SURVEY ON MACHINE LEARNING APPROACH TO PREDICT AUTISM SPECTRUM DISORDERS

Magesh Kumar R,Rajeshini P.R

ABSTRACT

Machine learning (ML) is a kind of synthesis Intelligence (AI) that enables software program packages Predict the effect more accurately It is specially programmatized for that. Mechanical research Algorithm inputs using old information Expect new output values. Machine learning is very important because it provides companies with insights into customer behaviors and retailer behaviour patterns to help improve new products. In today's world, the importance of autism spectrum disorders (ASD) is growing faster than ever. Detection of autism features by screening tests is very costly and time consuming. Advances in artificial intelligence and machine learning (ML) can predict autism at a fairly early stage. We collected early-detected ASD datasets associated with infants, children, children, and adults and implemented a number of feature conversion techniques in these datasets. Next, various typing strategies were performed on these transformed ASD datasets and their performance was evaluated. The classification techniques used in this system are Support Vector Machine (SVM), Random Forest (RF) , Ada Boost and ANN.

Keywords- Ada Boost, Artificial Neural Network (ANN), Autism Spectrum Disorders (ASD), Machine Learning, Random Forest (RF), Support Vector Machine (SVM).

24. **Mr.V.Eswaramurthy, AP/CSE** has participated in the NAAC Sponsored Two days Seminar on "**The Importance of Outcome Based Education in a Modern Educational Setup** from 21st and 22nd September, 2022 Organized by Hindusthan Institute of Technology, Coimbatore

HINDUSTHAN INSTITUTE OF TECHNOLOGY
(An Autonomous Institution)
COIMBATORE-641032

Internal Quality Assurance Cell

CERTIFICATE OF PARTICIPATION

This is to certify that V.Eswaramurthy attended NAAC Sponsored 2 days Seminar on "**THE IMPORTANCE OF OUTCOME BASED EDUCATION IN A MODERN EDUCATIONAL SETUP"** organized by Internal Quality Assurance Cell, Hindusthan Institute of Technology, Coimbatore on **21st & 22nd September 2022**

Dr.SR.RAJABALAYANAN
Head/IQAC

Dr.C.NATARAJAN
Principal

25. **Ms.K.Radha, AP/CSE** has participated in the NAAC Sponsored Two days Seminar on "**The Importance of Outcome Based Education in a Modern Educational Setup"** from 21st and 22nd September, 2022 Organized by Hindusthan Institute of Technology, Coimbatore

HINDUSTHAN INSTITUTE OF TECHNOLOGY
(An Autonomous Institution)
COIMBATORE-641032

Internal Quality Assurance Cell

CERTIFICATE OF PARTICIPATION

This is to certify that K.RADHA attended NAAC Sponsored 2 days Seminar on "**THE IMPORTANCE OF OUTCOME BASED EDUCATION IN A MODERN EDUCATIONAL SETUP"** organized by Internal Quality Assurance Cell, Hindusthan Institute of Technology, Coimbatore on **21st & 22nd September 2022**

Dr.SR.RAJABALAYANAN
Head/IQAC

Dr.C.NATARAJAN
Principal

26. **Dr.A.Noble Mary Juliet, Assoc.Prof/CSE** has participated and successfully completed the Professional Development Programme on "**Implementation of NEP – 2020 for University and College Teachers**" organized by Indira Gandhi National Open University, New Delhi from 21.09.2022 to 29.09.2022

INDIRA GANDHI NATIONAL OPEN UNIVERSITY
Staff Training and Research Institute of Distance Education
New Delhi 110068 Control No.:223010614S

UGC-Approved Short-Term Professional Development Programme
Under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching

This is to certify that

A.NOBLE MARY JULIET

Dr.Mahalingam College of Engineering and Technolog

participated in and successfully completed the

Professional Development Programme on
'Implementation of NEP-2020 for University and College Teachers'

held from 21-29 September, 2022

and obtained 'A' Grade

Prof. Santosh Panda
Director, STRIDE &
Coordinator of NEP-PDP Committee,
Indira Gandhi National Open University

New Delhi
Date of Issue:October 03, 2022

Prof. Rajendra Prasad Das
Pro-Vice Chancellor &
Chair of NEP-PDP Committee,
Indira Gandhi National Open University

27. **Dr.A.Noble Mary Juliet, Assoc. Prof/CSE** has participated in Tamil Nadu State Government Sponsored FDP on "**Next Generation Cyber Security through Blockchain**" organized by Government College of Engineering, Tirunelveli from 19.09.2022 to 23.09.2022

FACULTY DEVELOPMENT TRAINING CENTRE
GOVERNMENT COLLEGE OF TECHNOLOGY
(An Autonomous Institution affiliated to Anna University /Accredited by NAAC- A Grade)
COIMBATORE – 641 013

Certificate of Participation

This is to certify that *Dr.A.Noble Mary Juliet, Associate Professor / Computer Science and Engineering, Dr.Mahalingam college of Engineering and Technology, Coimbatore* has participated in Tamil Nadu State Government Sponsored Five Day Faculty Development Programme on **"Next Generation Cyber Security through Blockchain"** from *19.09.2022 to 23.09.2022* organized by the **Faculty Development Training Centre** in association with **Department of Computer Science and Engineering, Government College of Engineering, Tirunelveli through Online Mode.**

Coordinator	Convener	Convener	Professor	Principal
Dr. M. Mahil	Dr.G. Tamilpavai	Dr.K.Manonmani	Dr. T. Purusothaman	Dr. P Thamarai

8

E - Certificate No: NGCSTB1909P005

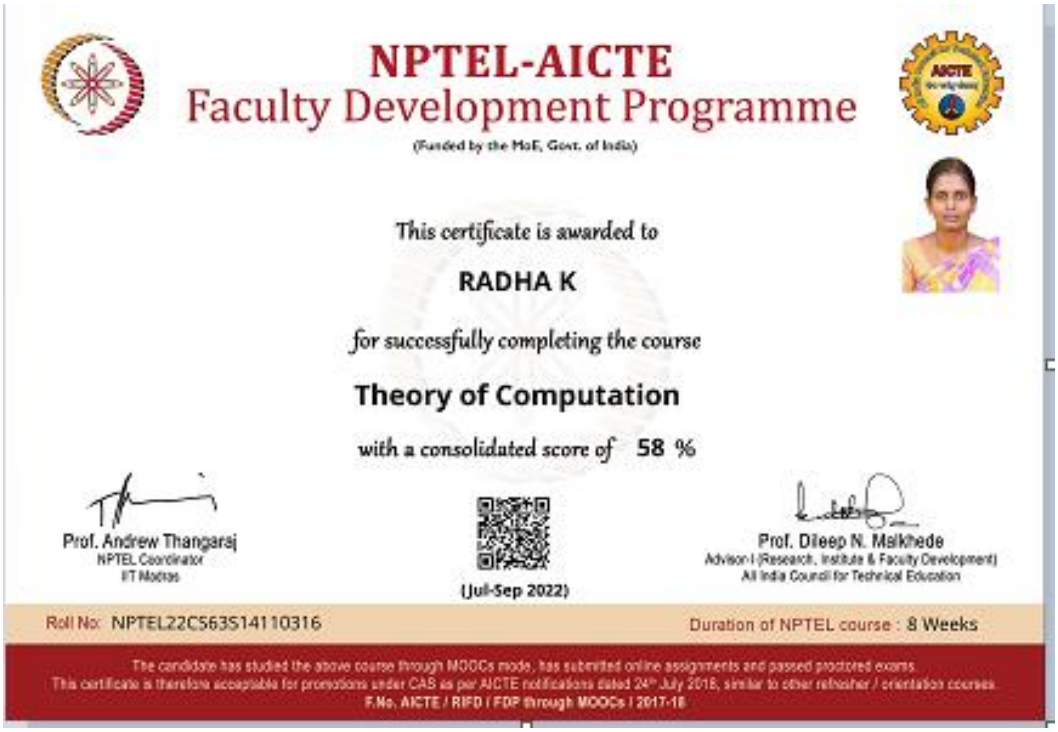
28. **Ms.T.Gowrisankari, AP/CSE** has participated in the Naan Mudhalvan Training of Trainers Program for "Augmented Reality, Virtual Reality & Metaverse Development" held between 19.09.2022 to 22.09.2022

29. **Dr.J.Bhavithra, AP(SG)/CSE** has participated in Tamil Nadu State Government Sponsored FDP on "**Next Generation Cyber Security through Blockchain**" organized by Government College of Engineering, Tirunelveli from 19.09.2022 to 23.09.2022

30. **Mr.V.Eswaramurthy, AP/CSE** has participated and successfully completed a Five Days National Level Online FDP on "**Research Trends and Technologies in Industry 4.0**" organized by KKR & KSR Institute of Technology and Sciences from 26.09.2022 to 30.09.2022

31. **Ms.K.Radha, AP/CSE** has participated and successfully completed a Five Days National Level Online FDP on "**Research Trends and Technologies in Industry 4.0**" organized by KKR & KSR Institute of Technology and Sciences from 26.09.2022 to 30.09.2022

32. **Ms.K.Radha, AP/CSE** has successfully completed the NPTEL Course on "**Theory of Computation**" from July 2022 to September 2022.



NPTEL-AICTE
Faculty Development Programme
(Funded by the MoE, Govt. of India)

This certificate is awarded to

RADHA K

for successfully completing the course

Theory of Computation

with a consolidated score of 58 %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

(Jul-Sep 2022)

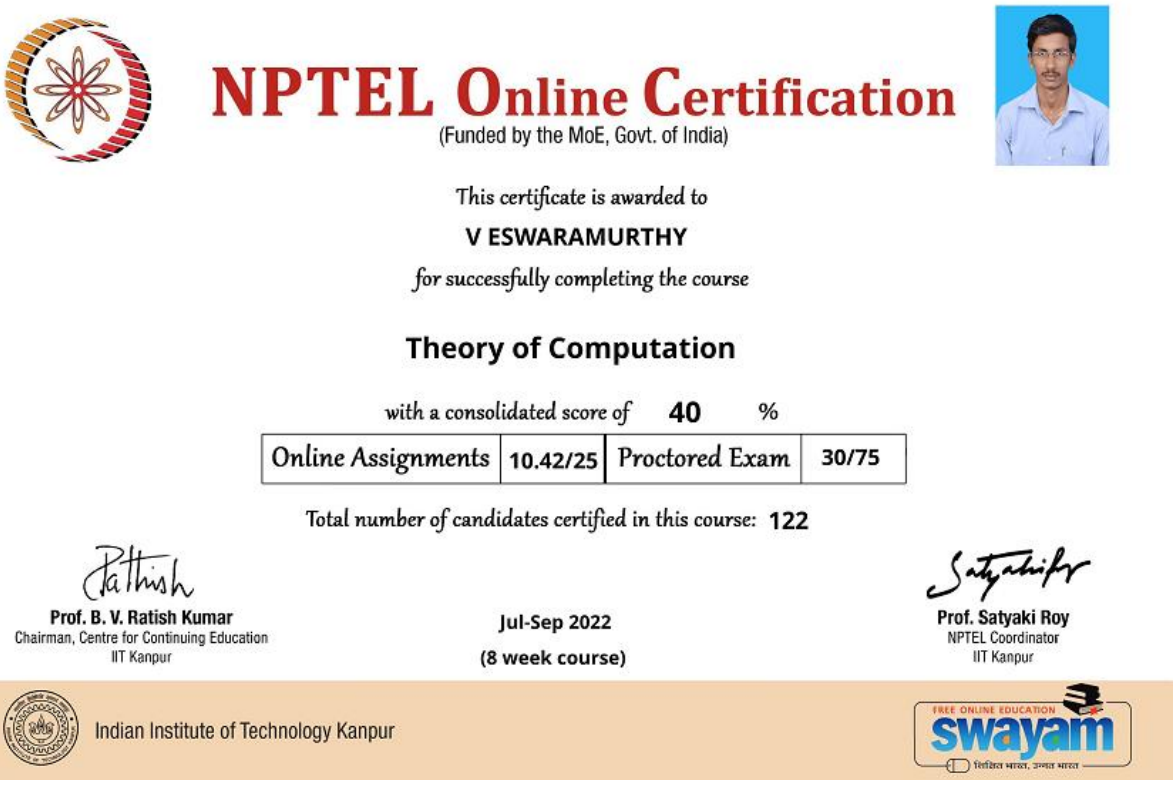
Prof. Dilip N. Maikhede
Advisor I (Research, Institute & Faculty Development)
All India Council for Technical Education

Roll No: NPTEL22C563S14110316

Duration of NPTEL course : 8 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

33. **Mr.V.Eswaramurthy, AP/CSE** has successfully completed the NPTEL Course on "Theory of Computation" from July 2022 to September 2022.



NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to

V ESWARAMURTHY

for successfully completing the course

Theory of Computation

with a consolidated score of 40 %

Online Assignments	10.42/25	Proctored Exam	30/75

Total number of candidates certified in this course: 122

Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Jul-Sep 2022
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Indian Institute of Technology Kanpur

FREE ONLINE EDUCATION swayam

34. **Ms.B.Suganya, AP/CSE** has participated and successfully completed a Five Days National Level FDP on "**Machine Learning and Deep Learning**" organized by SRM Institute of Science and Technology, Chennai from 11.10.2022 to 15.10.2022

35. **Mr.V.Eswaramurthy, AP/CSE** has participated and successfully completed a Five Days National Level FDP on "**Machine Learning and Deep Learning**" organized by SRM Institute of Science and Technology, Chennai from 11.10.2022 to 15.10.2022

36. **Ms.G.Gayathri, AP/CSE** has participated in the Three days Faculty Development Programme on "**Intelligent Computing for Next Generation Embedded IoT**" organized by the Department of Information Technology, Sri Krishna College of Engineering and Technology, Coimbatore from 26.10.2022 to 28.10.2022

37. **Ms.T.Gowrisankari, AP/CSE** has participated in the Three days Faculty Development Programme on "**Intelligent Computing for Next Generation Embedded IoT**" organized by the Department of Information Technology, Sri Krishna College of Engineering and Technology, Coimbatore from 26.10.2022 to 28.10.2022

38. **Ms.C.Devipriya,AP/CSE,** has participated in the Three days Faculty Development Programme on "**Intelligent Computing for Next Generation Embedded IoT**" organized by the Department of Information Technology, Sri Krishna College of Engineering and Technology, Coimbatore from 26.10.2022 to 28.10.2022

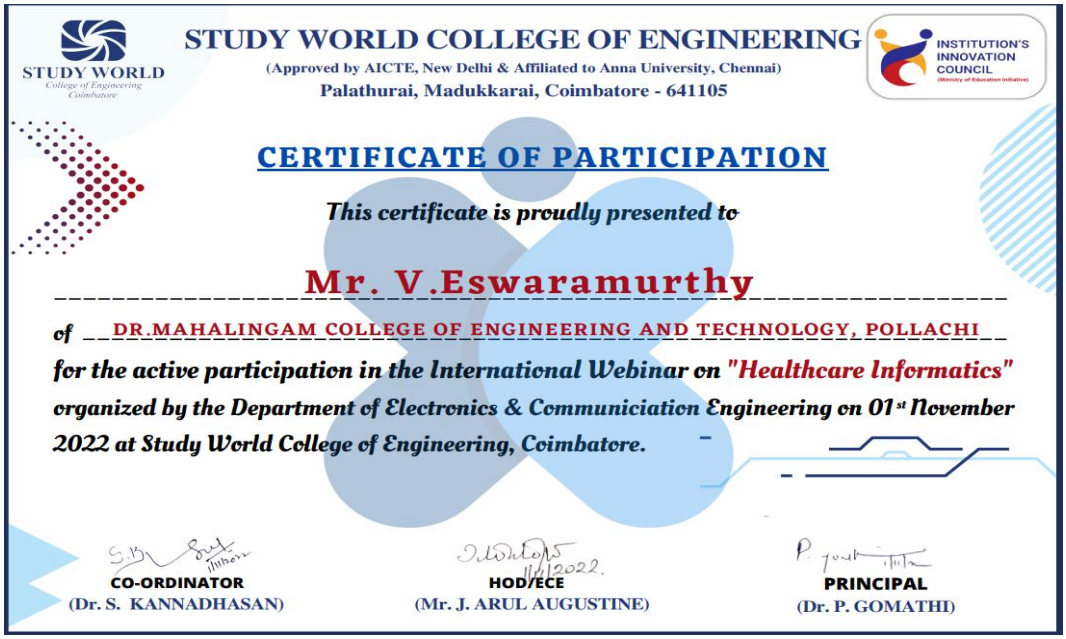
39. **Mr.K.Prabhu,AP/CSE,** has participated in the Three days Faculty Development Programme on "**Intelligent Computing for Next Generation Embedded IoT**" organized by the Department of Information Technology, Sri Krishna College of Engineering and Technology, Coimbatore from 26.10.2022 to 28.10.2022

40. **Ms.P.Banumathi,AP/CSE,** has participated in the Three days Faculty Development Programme on "**Intelligent Computing for Next Generation Embedded IoT**" organized by the Department of Information Technology, Sri Krishna College of Engineering and Technology, Coimbatore from 26.10.2022 to 28.10.2022

41. **Mr.S.Senthil Prabhu,AP/CSE,** has participated in the Three days Faculty Development Programme on "**Intelligent Computing for Next Generation Embedded IoT**" organized by the Department of Information Technology, Sri Krishna College of Engineering and Technology, Coimbatore from 26.10.2022 to 28.10.2022

42. **Mr.V.Eswaramurthy,AP/CSE,** has participated in the Three days Faculty Development Programme on "**Intelligent Computing for Next Generation Embedded IoT**" organized by the Department of Information Technology, Sri Krishna College of Engineering and Technology, Coimbatore from 26.10.2022 to 28.10.2022

43. **Mr.V.Eswaramurthy, AP/CSE** has participated in the International Webinar on "**Healthcare Informatics**" organized by the Department of Electronics & Communication Engineering on 01.11.2022 at Study World College of Engineering, Coimbatore.



44. **Mr.V.Eswaramurthy, AP/CSE** has participated in One Day International Level seminar on "**Deep Learning Techniques on Medical Image Classification**" organized by M.Kumarasamy College of Engineering, Karur held on 11.11.2022


M.KUMARASAMY COLLEGE OF ENGINEERING
NAAC Accredited Autonomous Institution
Approved by AICTE & Affiliated to Anna University
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Thalavapalayam, Karur – 639 113.
INSTITUTION'S INNOVATION COUNCIL
(Ministry of Education Initiative)

Certificate of Participation

This is to certify that
Mr.V.Eswaramurthy
Assistant Professor, Computer Science and Engineering ,
Dr Mahalingam College of Engineering and Technology, Pollachi
has participated in a One Day International Level Seminar on Deep Learning Techniques on Medical Image Classification on 11.11.2022 organised by the Department of Computer Science and Engineering, M.Kumarasamy College of Engineering, Thalavapalayam, Karur, Tamilnadu, India in virtual mode.

Dr. D. Pradeep
AP-CSE & Coordinator
Dr. S. Thiagamani
HOD-CSE
Dr. N.Ramesh Babu
Principal

45. **Mr.P.Boopathirajan**, AP(SS)/CSE, has participated and successfully completed the Five Days FDP on "**Cyber Security in Post-Quantum World**" Organized by School of Computer Science and Engineering, from 14.11.2022 to 18.11.2022 at Vellore Institute of Technology, Chennai


VIT
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)
CHENNAI

Certificate of Participation

This is to certify that Dr./Prof./Mr./Ms. ..... BOOPATHI RAJAN P .....of
..... Dr Mahalingam College of Engineering and Technology .....has participated in the FDP on Cyber Security in Post-Quantum World organized by School of Computer Science and Engineering from 14th to 18th November 2022 at Vellore Institute of Technology, Chennai.

Dr. Indra Priyadharshini S
Coordinator
Dr. Kavitha D
Coordinator
Dr. Ganesan R
Dean - SCOPE

VIT – A place to learn; A chance to grow

46. **Ms.C.Devipriya**, AP/CSE, has participated and successfully completed the Five Days FDP on "Research Advancements in Intelligent Computing Technologies" Organized by Department of Computer Science and Engineering, from 19.12.2022 to 23.12.2022 at Sri Krishna College of Engineering and Technology, Coimbatore

SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY
(AN AUTONOMOUS INSTITUTION)
Approved by AICTE & Affiliated to Anna University, Chennai
Accredited by NAAC with 'A' Grade & NBA,Kuniyamuthur,Coimbatore-641008

CERTIFICATE OF PARTICIPATION

This is to Certify that

Devipriya C

Dr. Mahalingam College of Engineering and Technology

has participated in International Level Virtual Faculty Development Program on "Research Advancements in Intelligent Computing Technologies", organized by Department of Computer Science and Engineering from 19.12.2022 to 23.12.2022.

Mr.M.VENGATESHWARAN
Dr.G.VIJAYA & Dr.V.K RESHMA
Coordinator

Dr.K.SASI KALA RANI
HOD/CSE

Dr.J.JANET
Principal

ABOUT DEPARTMENT

The department of Computer Science and Engineering [CSE] was established in 1998. It instills confidence among the students to make themselves experts in the field of computers. It also enables them to occupy a place of prominence in IT industries globally. The students ought to do a project on or off-campus in the final year with an option to choose their platform and thus they are exposed to the real time computer problems which will mould them to conquer the challenging IT world. The department is affiliated to Anna University and accredited by National Board of Accreditation (NBA), AICTE, New Delhi & ISO Certified.

CHIEF EDITORS:

Dr.G .Anupriya, Professor & Head/CSE
Mr.K.Prabhu, Assistant Professor/CSE