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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BYTE BULLETIN

A NEWSLETTER

Volume 1 - Issue 1
July - 2025

About Byte Bulletin

ByteBulletin proudly presents a vibrant showcase of our department's milestones, capturing the spirit of learning, innovation, and excellence that defines our academic community. This edition highlights the enthusiastic participation of students in various co-curricular and extracurricular activities, along with their accomplishments in prestigious online courses and NPTEL certifications that reflect their commitment to continuous learning. The newsletter also celebrates the remarkable achievements of our dedicated faculty, whose contributions inspire academic growth and professional development. In addition, it features a comprehensive overview of department events, workshops, and initiatives, as well as notable student achievements and winners across diverse domains. ByteBulletin stands as a testament to our collective efforts, talent, and pursuit of excellence, offering readers an inspiring glimpse into the dynamic activities shaping our department.

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Professor & Head/CSE

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727624BCS067

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Dr. MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY
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COMPUTER SCIENCE AND ENGINEERING

VISION OF THE DEPARTMENT

To develop engineers with global employability, 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.

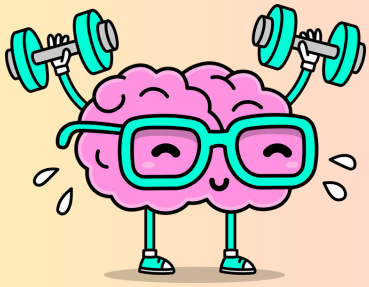
PO11.Project Management and Finance : Apply Engineering knowledge and management principles for effective project management in multidisciplinary environments.

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.





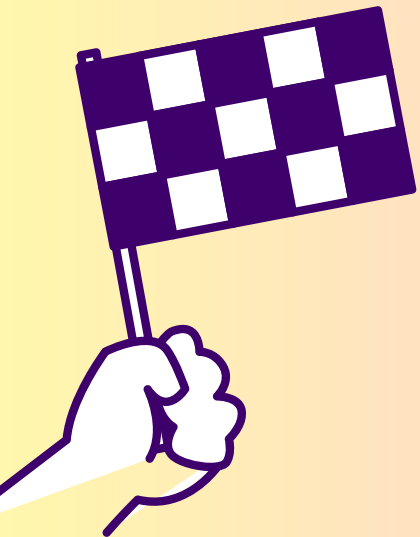
DEPARTMENT ACTIVITIES





BYTE BULLETIN





DEPARTMENT ACTIVITIES

01) The Department of Computer Science and Engineering conducted the **27th inaugural function of the CSE Association – DigiFlash** on 26.07.2025. Mr. N. Jayabalakrishnan, Delivery Manager at TCS, Chennai, and a proud alumnus, inspired students with insights into cloud technologies and career growth.





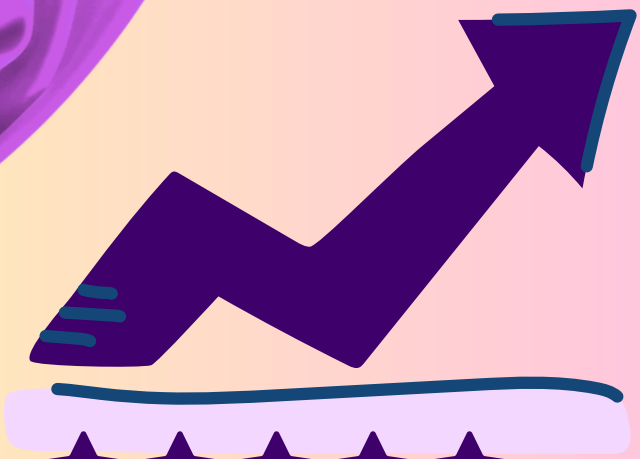


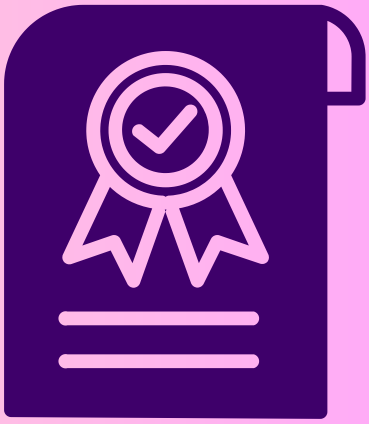
02) The **Technical Quiz** held on 26th July 2025 was an engaging event where students showcased their skills and enthusiasm. Through thought-provoking questions and interactive rounds, participants gained valuable technical knowledge, improved problem-solving abilities, and enhanced their confidence. The event encouraged learning, healthy competition, and teamwork among students.











FACULTY ACHIEVEMENTS





BYTE BULLETIN



FACULTY ACHIEVEMENTS

01) **Mr.Senthil Prabhu S, Assistant Professor(SS)/CSE** has presented a paper titled **"Parkinson's disease detector"** at the International Conference on Recent Innovations in Engineering and Technology (ICRIET 2025). The conference was organized by the Department of Information Technology and held on 11-04-2025 and 12-04-2025, at Bannari Amman Institute of Technology, Sathyamangalam.


BANNARI AMMAN INSTITUTE OF TECHNOLOGY
An Autonomous Institution, Affiliated to Anna University, Approved by AICTE, Accredited by NAAC with 'A+' Grade, Sathyamangalam- 638 401, Erode(dt), Tamilnadu, India
Stay Ahead

Certificate of Participation

Prof/Dr/Mr/Ms. SENTHIL PRABHU S from Dr. Mahalingam College of Engineering and Technology, Pollachi has presented a paper titled Parkinson's disease detector in INTERNATIONAL CONFERENCE ON RECENT INNOVATIONS IN ENGINEERING AND TECHNOLOGY (ICRIET 2025) Organized by the Department of Information Technology held during 11th & 12th April 2025 at Bannari Amman Institute of Technology, Sathyamangalam.

Organizer Secretary | Convener | Principal

02)**Ms.G.Deepa, Assistant Professor/CSE** has participated in a one-week Faculty Development Program on **" Microsoft Power BI Data Analyst Associate ".** The program was conducted by ICT Academy from 21-04-2025 to 25-04-2025, at Dr. Mahalingam College of Engineering and Technology, Pollachi.


ICTACADEMY

CERTIFICATE OF PARTICIPATION

G.DEEPA

Dr. Mahalingam College of Engineering & Technology

has participated in one week Faculty Development Program on

Microsoft Power BI Data Analyst Associate

conducted by ICT Academy on 21 Apr 2025 to 25 Apr 2025 at

Dr. Mahalingam College of Engineering & Technology

Microsoft

03) **Mr.S.Senthil Prabhu, Assistant Professor (SS)/CSE** has presented the paper titled **"Integration of Chatbot into Travel Booking App"** at the 15th International Conference on Science & Innovative Engineering held on 26-04-2025 and 27-04-2025 at Prince Dr. K. Vasudevan College of Engineering & Technology, Chennai.


15TH INTERNATIONAL CONFERENCE ON SCIENCE & INNOVATIVE ENGINEERING - 2025
ORGANIZED BY
PRINCE SHRI VENKATESHWARA PADMAVATHY ENGINEERING COLLEGE
PRINCE DR. K. VASUDEVAN COLLEGE OF ENGINEERING & TECHNOLOGY
IN ASSOCIATION WITH
MANIPAL UNIVERSITY COLLEGE, MALAYSIA
ORGANIZATION OF SCIENCE & INNOVATIVE ENGINEERING TECHNOLOGY
Certificate of Presentation
This is to certify that the paper entitled
Integration of Chatbot into Travel Booking App
Authored by
Mr. S. Senthil Prabhu , Dr Mahalingam College of Engineering and Technology, Pollachi
has been presented at
"15th International Conference on Science & Innovative Engineering" held on 26th & 27th April 2025 at Prince Dr. K. Vasudevan College Of Engineering & Technology , Chennai, India.
Dr. Antony V.Samrot, M.E., Ph.D., Director (Research, Innovation and Postgraduate Studies) Manipal University College, Malaysia
Dr. A. Krishnamoorthy, M.E., Ph.D Convener - ICCET
K.Janani, M.Tech., CEO, OSIET

04) **Ms. C. Devipriya, Assistant Professor (SS) / CSE** has successfully attended the one-day workshop on **"Power BI: Create Your Own Data Visualizations and Build Reports"**. The workshop was conducted by the Office of Dean - Research & Innovation at Dr. Mahalingam College of Engineering and Technology held on 04.07.2025.


MCET | Dr. MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY
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NM 100
Office of Dean - Research & Innovation
Certificate of Participation
This is to Certify that
C.Devipriya
Assistant Professor (SS) / CSE
has attended the one day workshop on
"Power BI: Create Your Own Data Visualizations and Build Reports"
on 04-07-2025
conducted by office of Dean R&I
Dr. S. Ramakrishnan
Dean - R&I
Dr. P. Govindasamy
Principal

05) **Mr.S.Senthil Prabhu, Assistant Professor(SS)/CSE** has presented a research paper entitled **"SMART HOSPITAL FINDER"** in the Fifth National Conference on Recent Advancements in Science, Engineering & Technologies (RASET 2025) organized by the Department of Electronics and Communication Engineering at Bannari Amman Institute of Technology, Sathyamangalam, held from 05-05-2025 to 06-05-2025.


ISBN Approved: 978-93-342-1120-7 Certificate Reference ID: ET25299-3

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SATHYAMANGALAM – 638 401, ERODE DISTRICT, TAMIL NADU

Department of Electronics and Communication Engineering

in association with

AquaTech Innovation (ATI) Special Laboratory

Certificate of Presentation

This is to certify that Dr./Mr./Ms. SENTHIL PRABHU S from Dr. MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY has presented a research paper entitled "SMART HOSPITAL FINDER" in Fifth National Conference on "Recent Advancements in Science, Engineering & Technologies (RASET 2025)" organized by the Department of Electronics and Communication Engineering, Bannari Amman Institute of Technology, Sathy held from 05.05.2025 to 06.05.2025.

Prof. V. Baranidharan
Organizer

Dr. S. P. Prakash
HOD/ECE

Dr. C. Palanisamy
Principal

06) **Ms. A. Jayalakshmi, Assistant Professor/CSE,** has successfully completed a one-week FDP on **"Next Generation AI: ML, DL & RL in Robotics and Automation"** from 26-05-2025 to 31-05- 2025.


CIN: U80302BR2018PTC038026

Annant Gyan

KNOWLEDGE AND SKILLS PRIVATE LIMITED

Certificate

This is to certify that

MS. A.JAYALAKSHMI

Assistant Professor, CSE, Dr. Mahalingam college of Engineering and Technology, Pollachi, Tamil Nadu
Successfully participated in one week online "Faculty Development Program" on the topic

"Next Generation Artificial Intelligence: Applications of ML, DL & RL in Robotics and Automation" (NGAI-2025)

(From 26th May to 31st May 2025)

Amar Nath Dubey
Founder & Director

Date: 6th June 2025

www.annantgyan.com

AGKSPL/SDTP/FDP/NGAI-2025/NGAI-21

07) Mr. Prabhu K Assistent Professor(SS)/CSE has presented the paper entitled **"Adaptive X-Ray Image Processing: Practical Solution for Diverse Applications "** in the IEEE sponsored 2025 International Conference on Cognitive Robotics and Intelligent Systems (ICC-ROBINS) organized by KPR Institute of Engineering and Technology , Coimbatore held on 25 - 26th June 2025.



03/09/2025, 16:34 Adaptive X-Ray Image Processing: Practical Solution for Diverse Applications | IEEE Conference Publication | IEEE Xplore

Adaptive X-Ray Image Processing: Practical Solution for Diverse Applications

Publisher: IEEE | Cite This | PDF

Prabhu K. ; Gowtham P. ; Sakthivel S. ; Karthick P S All Authors

8 Full Text Views

Abstract

Document Sections

I. Introduction

II. Literature Survey

III. Existing System

IV. Proposed System

V. Result and Discussion

Show Full Outline

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Abstract:
X-ray imaging is a crucial tool in medical diagnostics, but its effectiveness is often hindered by noise, artifacts, and distortions. Therefore, this research introduces an advanced framework for enhancing X-ray images by applying multiple image processing techniques in sequence. The proposed method integrates histogram-based contrast enhancement, Contrast-Limited Adaptive Histogram Equalization (CLAHE), unsharp masking, and high-frequency emphasis filtering to enhance contrast, reduce noise, and improve fine details. To optimize performance, parallel computing with Graphics Processing Units is employed, which significantly accelerates the processing speed. Experimental evaluations demonstrate a substantial enhancement in X-ray image quality, highlighting the effectiveness of these advanced techniques in radiological analysis. This study contributes to the development of improved X-ray imaging methods, supporting more precise medical diagnoses and enhancing patient care.

Published in: 2025 Second International Conference on Cognitive Robotics and Intelligent Systems (ICC - ROBINS)

Date of Conference: 25-26 June 2025

DOI: 10.1109/ICC-ROBINS64345.2025.11086116

Date Added to IEEE Xplore: 29 July 2025

Publisher: IEEE

ISBN Information:

Conference Location: Coimbatore, India

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Sakthivel S
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Karthick P S
Department of Computer Science and Engineering, Dr. Mahalingam College of Engineering and Technology, Pollachi, India

Figures

References

https://ieeexplore.ieee.org/document/11086116/authors#authors 1/2



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Certificate No: KPRIET/IEEE/CFRD/R161/1

2025 Second International Conference on Cognitive Robotics and Intelligent Systems
ICC ROBINS 2025

25-26, June 2025 | Coimbatore, India

Organized by Centre for Research and Development (CFRD), KPRIET

CERTIFICATE
of presentation

This is to certify that Dr./Mr./Ms. Prabhu K has successfully presented the paper entitled Adaptive X-Ray Image Processing: Practical Solution for Diverse Applications in the IEEE sponsored 2025 International Conference on Cognitive Robotics and Intelligent Systems (ICC - ROBINS) held at KPR Institute of Engineering and Technology, Coimbatore, India during 25-26, June 2025.

Dr. H. James Deva Koresh
Conference Chair

Dr. R. Maheswar
General Chair

Dr. D. Saravanan
Patron

IEEE XPLORE COMPLIANT ISBN 979-8-3315-0172-3
IEEE DVD ISBN 979-8-3315-0171-6

08)**Ms. C. Devipriya, Assistant Professor (SS) / CSE** has participated in the Faculty Development Program on **"Big Data Analytics"** conducted by the Electronics & ICT Academy, C-DAC Hyderabad from 23-06-2025 to 27-06-2025.



CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING

A Scientific Society of the Ministry of Electronics & Information Technology, Government of India

CERTIFICATE OF PARTICIPATION

This is to certify that C.DEVIPRIYA from DR.MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY has participated in the Faculty Development Program on "**Big Data Analytics**" conducted by the **Electronics & ICT Academy, C-DAC Hyderabad** from **Jun 23 - 27, 2025.** This program was supported by the Ministry of Electronics & Information Technology, Govt of India.

M Kumar
Scientist-E & Chief Investigator,
Electronics & ICT Academy, C-DAC Hyderabad

Dated: 01-07-2025

Dr. P R Lakshmi Eswari
Scientist-G & Centre Head

Certificate No: C-DAC(H)/25-26/EICT/2/BDA/331

09) **Dr. Barakkath Nisha U, Professor/CSE** has successfully completed the **"Capacity Building Programme on Cybersecurity"** – Basic Course, organized by the Teaching Learning Centre (TLC), IIT Madras and conducted by IITM Pravartak during the period 23-06-2025 to 27-06-2025.



MALAVIYA MISSION TEACHER TRAINING PROGRAMME

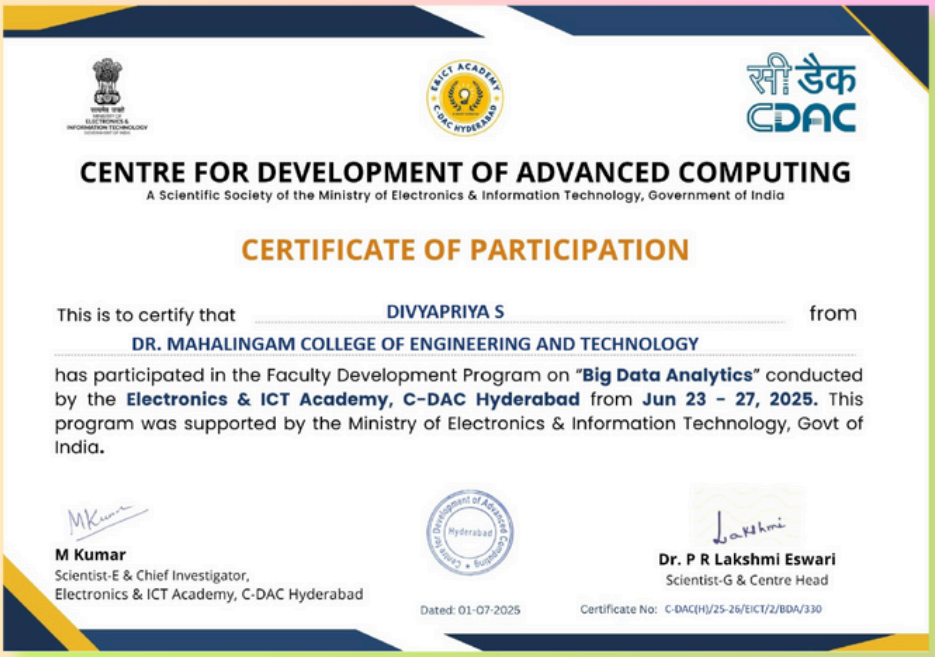
CERTIFICATE OF COMPLETION

CAPACITY BUILDING PROGRAMME ON CYBERSECURITY

This is to certify that Dr. Barakkath Nisha U from Dr.Mahalingam College of Engineering and Technology has completed the Capacity Building Programme on Cybersecurity – Basic Course organized by Teaching Learning Centre (TLC), IIT Madras and conducted by IITM Pravartak during 23 to 27 June, 2025.
The program is under the aegis of Ministry of Education, Govt of India, through Malaviya Mission Teacher Training Programme.

Director/Coordinator (MM-TTC)

10) **Divyapriya S Assistant Professor/CSE** has participated in the Faculty Development Program on **"Big Data Analytics"** conducted by the Electronics & ICT Academy, C-DAC Hyderabad from 23-06-2025 to 27-06-2025.



CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING

A Scientific Society of the Ministry of Electronics & Information Technology, Government of India

CERTIFICATE OF PARTICIPATION

This is to certify that DIVYAPRIYA S from DR. MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY has participated in the Faculty Development Program on "Big Data Analytics" conducted by the Electronics & ICT Academy, C-DAC Hyderabad from Jun 23 - 27, 2025. This program was supported by the Ministry of Electronics & Information Technology, Govt of India.

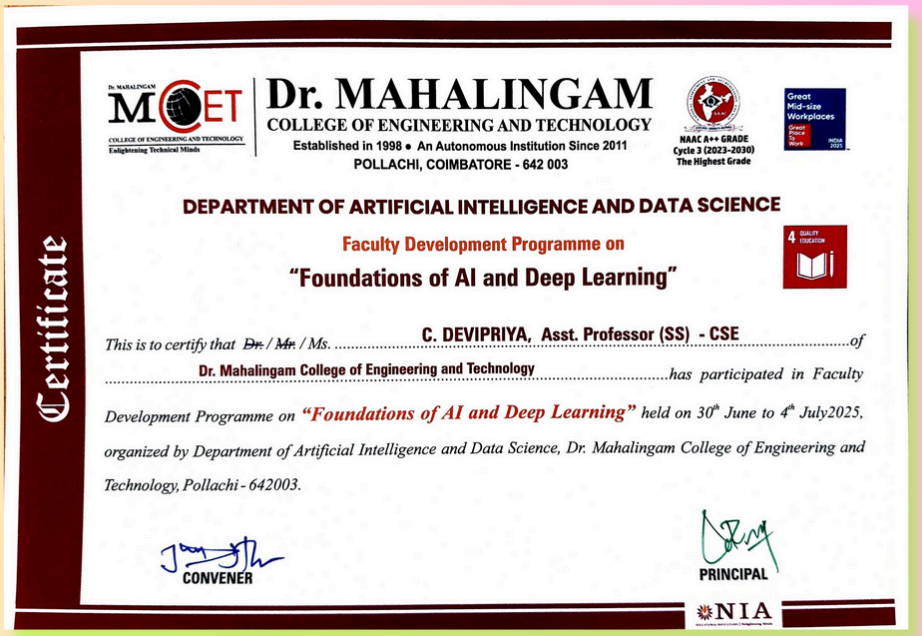
M Kumar
Scientist-E & Chief Investigator,
Electronics & ICT Academy, C-DAC Hyderabad

Dr. P R Lakshmi Eswari
Scientist-G & Centre Head

Dated: 01-07-2025

Certificate No: C-DAC(H)/25-26/EICT/2/BDA/330

11) **Ms. C. Devipriya, Assistant Professor(SS)/CSE** has participated in the Faculty Development Programme on "**Foundations of AI and Deep Learning**" organized by the Department of Artificial Intelligence and Data Science, Dr. Mahalingam College of Engineering and Technology, Pollachi, held from 30-06-2025 to 04-07-2025.



Certificate

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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Faculty Development Programme on

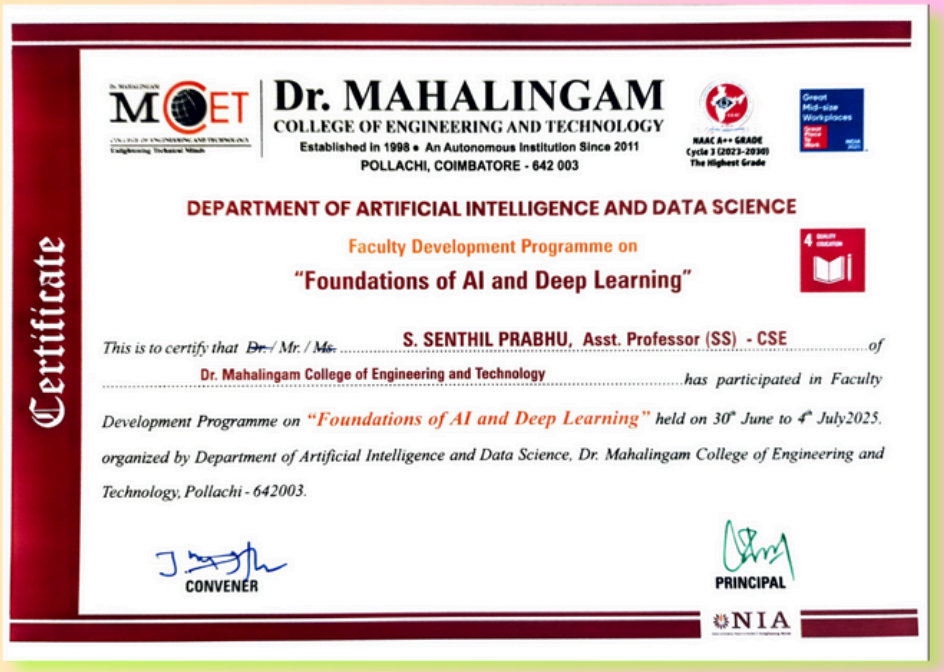
"Foundations of AI and Deep Learning"

This is to certify that ~~Dr.~~ / ~~Mr.~~ / Ms. C. DEVIPRIYA, Asst. Professor (SS) - CSE *of* Dr. Mahalingam College of Engineering and Technology *has participated in Faculty Development Programme on "Foundations of AI and Deep Learning" held on 30th June to 4th July2025, organized by Department of Artificial Intelligence and Data Science, Dr. Mahalingam College of Engineering and Technology, Pollachi - 642003.*

CONVENER

PRINCIPAL

12) **Mr. S. Senthil Prabhu, Assistant Professor(SS)/CSE** has participated in the Faculty Development Programme on **"Foundations of AI and Deep Learning"**, organized by the Department of Artificial Intelligence and Data Science, held from 30-06-2025 to 04-07-2025 at Dr. Mahalingam College of Engineering and Technology



13) **Ms.R.Binisha, Assistant Professor/CSE** has successfully attended the one-day workshop on "**Power BI: Create Your Own Data Visualizations and Build Reports**". The workshop was conducted by the Office of Dean - Research & Innovation at Dr. Mahalingam College of Engineering and Technology held on 01.07.2025.



14) **Dr. Barakkath Nisha U, Professor/CSE** has successfully attended the one-day workshop on "**Power BI: Create Your Own Data Visualizations and Build Reports**". The workshop was conducted by the Office of Dean - Research & Innovation at Dr. Mahalingam College of Engineering and Technology held on 01.07.2025.



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Office of Dean - Research & Innovation

Certificate of Participation

This is to Certify that

Dr. Barakkath Nisha U
Professor / CSE

has attended the one day workshop on

"Power BI: Create Your Own Data Visualizations and Build Reports"

on 01-07-2025

conducted by office of Dean R&I

Dr. S. Ramakrishnan
Dean - R&I

Dr. P. Govindasamy
Principal

15) **Ms. G. Deepa, Assistant Professor / CSE** has awarded this Certificate of Appreciation for sharing valuable insights and expertise with participants on the topic **"Power BI: Create Your Own Data Visualizations and Build Reports"** during a one-day workshop conducted by the Office of Dean - Research & Innovation on 02-07-2025.



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Office of Dean - Research & Innovation

Certificate of Appreciation

This Certificate is Proudly Presented to

Ms. G. DEEPA
Assistant Professor, Computer Science & Engineering
Dr.Mahalingam College of Engineering and Technology, Pollachi

for the valuable insights and expertise shared with the participants in the following topic

"Power BI: Create Your Own Data Visualizations and Build Reports"

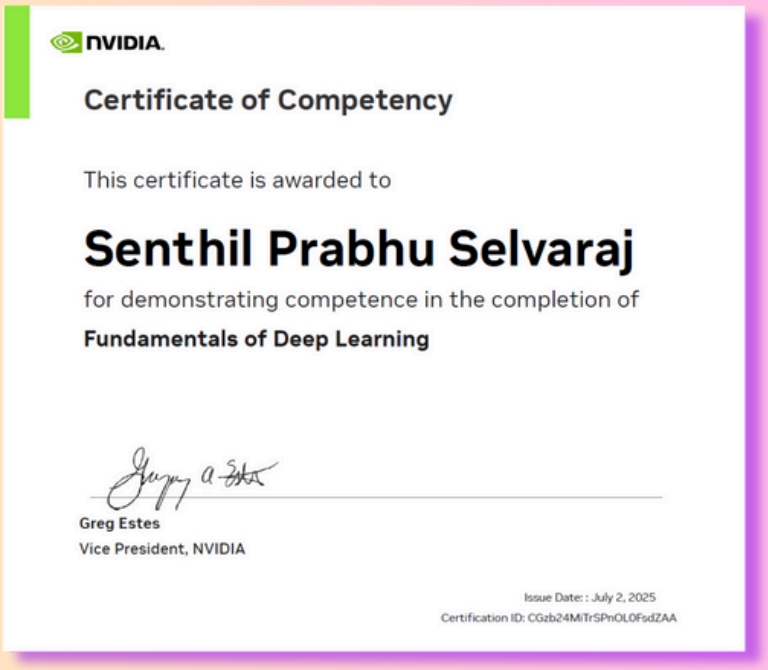
on 02.07.2025 for

One day workshop conducted by office of Dean R&I

Dr. S. Ramakrishnan
Dean - R&I

Dr. P. Govindasamy
Principal

16) **Mr.S.Senthil Prabhu, Assistant Professor (SS)/CSE** has completed the online course on **"Fundamentals of Deep Learning"** offered by NVIDIA on 02.07.2025.


NVIDIA.

Certificate of Competency

This certificate is awarded to

Senthil Prabhu Selvaraj

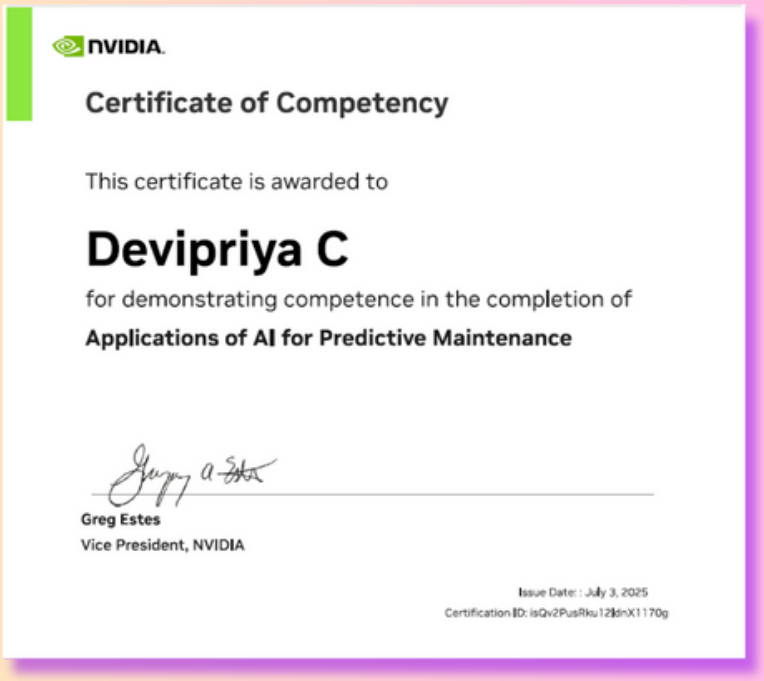
for demonstrating competence in the completion of

Fundamentals of Deep Learning

Greg Estes
Vice President, NVIDIA

Issue Date: : July 2, 2025
Certification ID: CGzb24MiTrSPnOL0FsdZAA

17) **Ms. Devipriya C, Assistant Professor(SS)/CSE** has successfully completed the online course on **"Applications of AI for Predictive Maintenance"** offered by NVIDIA on 03.07.2025.


NVIDIA.

Certificate of Competency

This certificate is awarded to

Devipriya C

for demonstrating competence in the completion of

Applications of AI for Predictive Maintenance

Greg Estes
Vice President, NVIDIA

Issue Date: : July 3, 2025
Certification ID: isQv2PusRku12ldnX1170g

18) **Ms. Devipriya C, Assistant Professor (SS) / CSE** has completed the online course on "**Fundamentals of Deep Learning"** offered by NVIDIA on 03-07-2025.


NVIDIA.

Certificate of Competency

This certificate is awarded to

Devipriya C

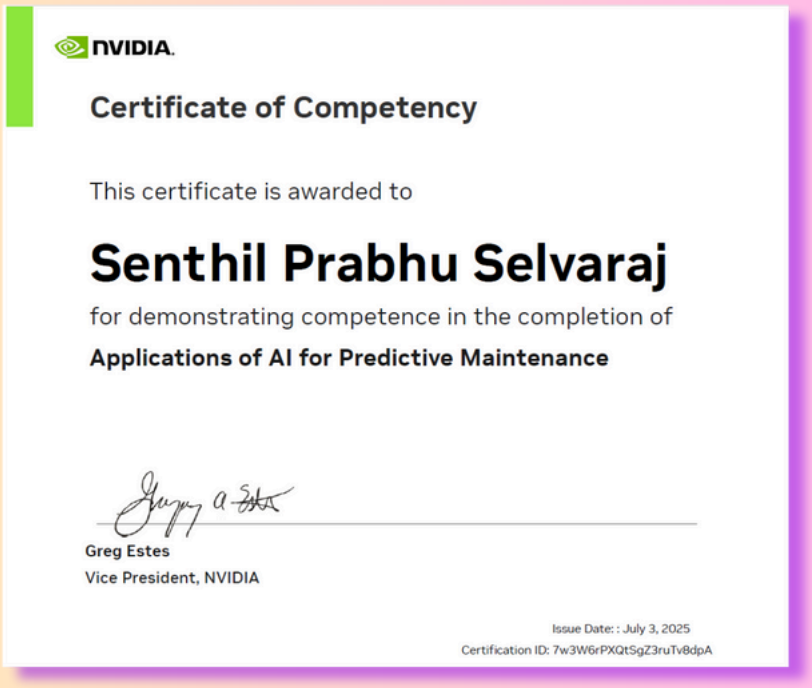
for demonstrating competence in the completion of

Fundamentals of Deep Learning

Greg Estes
Vice President, NVIDIA

Issue Date: : July 3, 2025
Certification ID: uxgbo8mETN250CLxv3gdUQ

19)**Mr.Senthil Prabhu Selvaraj, Assistant Professor (SS) / CSE** has completed the online course on **"Applications of AI for Predictive Maintenance"** offered by NVIDIA on 03-07-2025.


NVIDIA.

Certificate of Competency

This certificate is awarded to

Senthil Prabhu Selvaraj

for demonstrating competence in the completion of

Applications of AI for Predictive Maintenance

Greg Estes
Vice President, NVIDIA

Issue Date: : July 3, 2025
Certification ID: 7w3W6rPXQtSgZ3ruTv8dpA

20) **Dr. N. Suba Rani, Associate Professor/CSE** was appreciated for delivering valuable insights and expertise during the one-day workshop on **"Power BI: Create Your Own Data Visualizations and Build Reports"**, conducted by the Office of Dean – Research & Innovation, held on 04-07-2025.


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Office of Dean - Research & Innovation

Certificate of Appreciation

This Certificate is Proudly Presented to

Dr. N. SUBA RANI
Associate Professor, Computer Science & Engineering
Dr.Mahalingam College of Engineering and Technology, Pollachi

for the valuable insights and expertise shared with the participants in the following topic

"Power BI: Create Your Own Data Visualizations and Build Reports"

on 04.07.2025 for

One day workshop conducted by office of Dean R&I

Dr. S. Ramakrishnan
Dean - R&I

Dr. P. Govindasamy
Principal

21) **Ms.S. Devilavanya, Assistant Professor / CSE** has participated in the one-day workshop on **"Power BI: Create Your Own Data Visualizations and Build Reports"** organized by Office of Dean R&I, Dr.Mahalingam College of Engineering and Technology, Pollachi held on 04-07-2025.


Dr. MAHALINGAM
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Certificate of Participation

This is to Certify that

S.Devilavanya
Assistant professor / CSE

has attended the one day workshop on

"Power BI: Create Your Own Data Visualizations and Build Reports"

on 04-07-2025

conducted by office of Dean R&I

Dr. S. Ramakrishnan
Dean - R&I

Dr. P. Govindasamy
Principal

22)**Ms.Divyapriya S, Assistant Professor / CSE**, has participated in the one-day workshop on **"Power BI: Create Your Own Data Visualizations and Build Reports"** organized by Office of Dean R&I, Dr.Mahalingam College of Engineering and Technology, Pollachi held on 04-07-2025.


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Certificate of Participation

This is to Certify that

DIVYAPRIYA S
Assistant Professor / CSE

has attended the one day workshop on

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on 04-07-2025

conducted by office of Dean R&I

Dr. S. Ramakrishnan
Dean R&I

Dr. P. Govindasamy
Principal

23) **Ms. Divyapriya S, Assistant Professor/CSE** has participated in a UGC-sponsored one-week online short-term programme on **"Innovative Teaching: e-Content Development, Artificial Intelligence & Online Pedagogy"**, organized by UGC-MM TTC, GJUS&T, Hisar, from 07-07-2025 to 12-07-2025.


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CERTIFICATE OF PARTICIPATION

Sr. No: 1203

This is to certify that **Ms. DIVYAPRIYA S, Assistant Professor, Computer Science and Engineering, Dr. Mahalingam College of Engineering and Technology** has participated in UGC sponsored **One-week Online (Live Mode) Short Term Programme on "Innovative Teaching: e-Content Development, Artificial Intelligence & Online Pedagogy"** organised by UGC-MMTTC, GJUS&T, Hisar w.e.f. **07-Jul-2025** to **12-Jul-2025**.

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DIRECTOR

DR. VIVEK GUPTA
PROGRAMME COORDINATOR

DR. ANURAG SANGWAN
PROGRAMME COORDINATOR

PROF. N. R. BISHNOI
VICE-CHANCELLOR

24) **Mr.Senthil Prabhu Selvaraj, Assistant Professor(SS)/CSE** has participated in a UGC-sponsored one-week online short-term programme on **"Innovative Teaching: e-Content Development, Artificial Intelligence & Online Pedagogy"**, organized by UGC-MM TTC, GJUS&T, Hisar, from 07-07-2025 to 12-07-2025.



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25) **Mrs. C. Devipriya, Assistant Professor (SS)/CSE** has participated in the UGC sponsored One-week Online (Live Mode) Short Term Programme on **"Innovative Teaching: e-Content Development, Artificial Intelligence & Online Pedagogy"** organised by UGC-MMTTC, GJUS&T, Hisar w.e.f. 07-07-2025 to 12-07-2025.



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26) **Dr. N Suba Rani, Associate Professor/CSE**, has participated in the UGC-sponsored One-week Online Short Term Programme on **"Innovative Teaching: e-Content Development, Artificial Intelligence & Online Pedagogy"** organized by UGC-MMTTC, Guru Jambheshwar University of Science & Technology, Hisar, held from 07-07-2025 to 12-07-2025.



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Sr. No: 1241

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PROF. SUNITA RANI, DIRECTOR | DR. VIVEK GUPTA, PROGRAMME COORDINATOR | DR. ANURAG SANGWAN, PROGRAMME COORDINATOR | PROF. N. R. BISHNOI, VICE-CHANCELLOR

27) **Dr. Barakkath Nisha U, Professor/CSE,** has presented a paper entitled **"A Unified Threat Intelligence Framework using FTLMS for Proactive IoT Security in Cloud Environments"** at the 8th ICCMC 2025, organized by Surya Engineering College, Erode held from 23-07-2025 to 25-07-2025.



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at the

8th International Conference on Computing Methodologics and Communication (ICCMC 2025) organised by Surya Engineering College, Erode, India on 23-25th July 2025.

Session Chair | L. Kalaiselvi, Program Chair | Dr. S. Manoharan, Principal

28) Dr.Barakkath Nisha U, Professor/CSE has presented a paper entitled **" A Unified Threat Intelligence Framework using FTLMS for Proactive IoT Security in Cloud Environments"** at the 8th International Conference on Computing Methodologies and Communication (ICCMC 2025) organised by Surya Engneering College, Erode , India held on 23.07.2025 to 25.07.2025



13/09/2025, 11:47 A Unified Threat Intelligence Framework using FTLMS for Proactive IoT Security in Cloud Environments | IEEE Conference P...

Conferences > 2025 8th International Confer...

A Unified Threat Intelligence Framework using FTLMS for Proactive IoT Security in Cloud Environments

Publisher: IEEE | Cite This | PDF

Kamalavalli T ; Barakkath Nisha U ; Yasir Abdullah R All Authors

Abstract

Document Sections

1 INTRODUCTION
2 RELATED WORK
3 SYSTEM ARCHITECTURE
4 PROPOSED METHODOLOGIES
5. EXPERIMENTAL RESULTS

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Abstract:
Adaptive Security remains a critical requirement as cloud-integrated Internet of Things deployments expose vast, fast-evolving attack surfaces that conventional intrusion-detection pipelines struggle to defend. This study introduces the Fortified Threat Learning and Mitigation System (FTLMS), a unified framework that fuses threat intelligence aggregation, hierarchical temporal modelling, and dynamic trust propagation to deliver proactive defence. At the core of FTLMS lies the Hierarchical Adaptive Threat Prediction Algorithm (HATPA), which forecasts risk trajectories through multi-stage recurrent embeddings and refines mitigation policies via reinforcement-driven feedback. The framework was implemented in MATLAB and evaluated against state-of-the-art baselines—LSTM-IDS, DNN-FEDSEC, and Federated SVM—over composite smart-grid, e-health, and industrial traffic traces. Experiments demonstrated that FTLMS-HATPA reduced average detection latency by 23 % and lifted attack-classification precision by 8 % while maintaining sub-second mitigation response, confirming its suitability for real-time, cloud-centric IoT security.

Published in: 2025 8th International Conference on Computing Methodologies and Communication (ICCMC)

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Date Added to IEEE Xplore: 04 September 2025
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Session Chair

L. Kalaiselvi
Program Chair

Dr. S. Manoharan
Principal

29) Mr.Boobathi Rajan P, Assistant Professor(SS)/CSE has presented a paper titled **" Deep Learning - Based User Behaviour Prediction for IT Security and Fraud Detection"** at 2nd International Conference on Computing and Data Science (ICCDS 2025), organized by the Department of Computer Science and Engineering, Rajalakshmi Engineering College, Chennai held on 25.07.2025 and 26.07.2025.



Deep Learning-Based User Behavior Prediction for IT Security and Fraud Detection

Publisher: IEEE

Sangeethaa SN ; Balamurugan M ; Boopathi Rajan P ; Shobana G ; Biju J ; Nivedha S All Authors

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Abstract

Abstract: Insider threat detection and financial fraud prevention remain significant challenges in cybersecurity and data-driven financial systems. This research introduces a novel hybrid deep learning model that integrates Convolutional Neural Networks (CNN), Bidirectional Gated Recurrent Units (BiGRU), and Transformer-based attention mechanisms to effectively learn both spatial and temporal features from user behavior and transaction logs. The proposed architecture is rigorously evaluated on two benchmark datasets: the CERT Insider Threat dataset and the Credit Card Fraud dataset. Experimental results reveal that the model outperforms traditional approaches such as CNN, GRU, and CNN-GRU with attention. On the CERT dataset, the model achieves a precision of 0.91, recall of 0.92, and an F1-score of 0.915. Similarly, it delivers a high Area Under Curve (AUC) of 0.99 on the Credit Card dataset, indicating excellent discriminatory power. These findings demonstrate the effectiveness and adaptability of the proposed model in real-world anomaly detection scenarios involving both insider threats and financial fraud.

Published in: 2025 2nd International Conference on Computing and Data Science (ICCDS)

Date of Conference: 25-26 July 2025

DOI: 10.1109/ICCDS64403.2025.11209442

Date Added to IEEE Xplore: 03 November 2025

Publisher: IEEE

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This is to certify that

Dr./Mr./Ms. Boopathi Rajan P

of Dr.Mahalingam College of Engineering and Technology has presented a paper titled

Deep Learning-Based User Behavior Prediction for IT Security and Fraud Detection at

2nd International Conference on Computing and Data Science (ICCDS-2025), held on

25th & 26th July 2025, organized by the Department of Computer Science and Engineering.

Dr. K.Ananthajothi, Coordinator

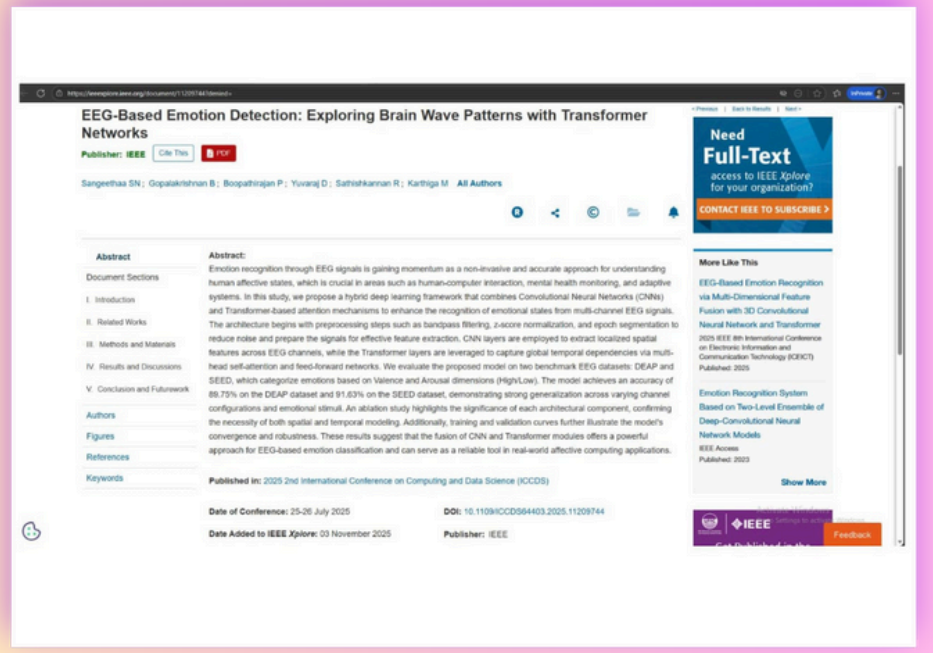
Dr. P. Kumar, Convener

Dr. E. M. Malathy, HOD-CSE

Dr. S.N. Murugesan, Principal

Rajalakshmi Institutions

30) Mr.Boobathi Rajan P Assistent Professor(SS)/CSE has presented a paper titled **" EEG Based Emotion Detection: Exploring Brain Wave Patterns with Tranformer Networks"** at 2nd International Conference on Computing and Data Science (ICCDS 2025), organized by the Department of Computer Science and Engineering, Rajalakshmi Engineering College, Chennai held on 25.07.2025 and 26.07.2025.



EEG-Based Emotion Detection: Exploring Brain Wave Patterns with Transformer Networks

Publisher: IEEE

Sangeethaa SN ; Gopalakrishnan B ; Boopathirajan P ; Yuvaraj D ; Sathishkannan R ; Karthiga M All Authors

Abstract:
Emotion recognition through EEG signals is gaining momentum as a non-invasive and accurate approach for understanding human affective states, which is crucial in areas such as human-computer interaction, mental health monitoring, and adaptive systems. In this study, we propose a hybrid deep learning framework that combines Convolutional Neural Networks (CNNs) and Transformer-based attention mechanisms to enhance the recognition of emotional states from multi-channel EEG signals. The architecture begins with preprocessing steps such as bandpass filtering, z-score normalization, and epoch segmentation to reduce noise and prepare the signals for effective feature extraction. CNN layers are employed to extract localized spatial features across EEG channels, while the Transformer layers are leveraged to capture global temporal dependencies via multi-head self-attention and feed-forward networks. We evaluate the proposed model on two benchmark EEG datasets: DEAP and SEED, which categorize emotions based on Valence and Arousal dimensions (High/Low). The model achieves an accuracy of 89.75% on the DEAP dataset and 91.63% on the SEED dataset, demonstrating strong generalization across varying channel configurations and emotional stimuli. An ablation study highlights the significance of each architectural component, confirming the necessity of both spatial and temporal modeling. Additionally, training and validation curves further illustrate the model's convergence and robustness. These results suggest that the fusion of CNN and Transformer modules offers a powerful approach for EEG-based emotion classification and can serve as a reliable tool in real-world affective computing applications.

Published in: 2025 2nd International Conference on Computing and Data Science (ICCDS)

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Date Added to IEEE Xplore: 03 November 2025

Publisher: IEEE



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Dr. K.Ananthajothi, Coordinator
Dr. P. Kumar, Convener
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Dr. S.N. Murugesan, Principal

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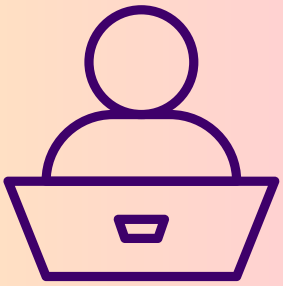


Quiz

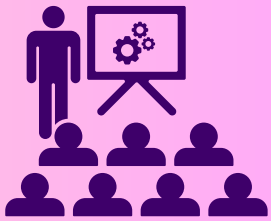


STUDENTS ACTIVITIES



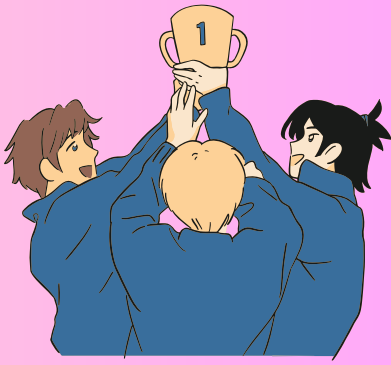












BYTE BULLETIN





STUDENT EXTRA AND CO-CURRICULAR ACTIVITIES

1) **Selvan.Rizwan Ahamed M**, student of **II Year B.E.CSE** has participated and won **First Prize** in the event "**Trivia Time**" a Technical Quiz Competition organized by DigiFlash - CSE Association of Dr.Mahalingam College of Engineering and Technology, Pollachi held on 26.07.2025.



2) **Selvan.Ragupathy K S**, student of II Year B.E.CSE has participated and won **First Prize** in the event "**Trivia Time**" a Technical Quiz Competition organized by DigiFlash - CSE Association of Dr.Mahalingam College of Engineering and Technology, Pollachi held on 26.07.2025.



3) **Selvi. Pavithra P** , student of II Year B.E.CSE has participated and won **Second Prize** in the event "**Trivia Time**" a Technical Quiz Competition organized by DigiFlash - CSE Association of Dr.Mahalingam College of Engineering and Technology, Pollachi held on 26.07.2025.



4) **Selvi.Selvapriyadharshini S** , student of CSE has participated and won **Second Place** in the event "**Trivia Time**" a Technical Quiz Competition organized by DigiFlash - CSE Association of Dr.Mahalingam College of Engineering and Technology, Pollachi held on 26.07.2025.



5) **Selvi. Rakshana N**, student of CSE has participated and won **Third Place** in the event "**Trivia Time**" a Technical Quiz Competition organized by DigiFlash - CSE Association of Dr.Mahalingam College of Engineering and Technology, Pollachi held on 26.07.2025.



6) **Selvi. Saheera Begham M** , student of CSE has participated and won **Third Place** in the event "**Trivia Time**" a Technical Quiz Competition organized by DigiFlash - CSE Association of Dr.Mahalingam College of Engineering and Technology, Pollachi held on 26.07.2025.





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