

# KAMARAJ

## COLLEGE OF ENGINEERING & TECHNOLOGY



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

S.P.G.Chidambara Nadar - C.Nagammal Campus

S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

# CSE PLUGIN



TECH MAGAZINE CUM NEWSLETTER  
NOV & DEC | 2025 5VOLUME 1 | ISSUE 12



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## Editorial Board

### Editor in chief



Dr.A.Meenakshi, M.E., Ph.D.,

HoD of CSE

### Editors



Mr.G.Praveen Kumar, M.E.,

AP/CSE



Mrs.E.Vijayalakshmi, M.E.,

AP/CSE

### Student Editorial Team



K. Harshini  
II CSE- A



K. O. Daksha monica  
II CSE- C



S. Suwedhika  
II CSE- C

### Faculty Profile



Dr.A.Meenakshi, M.E., Ph.D.,  
Professor & HoD



Dr.A.Anandh, M.E., M.B.A., Ph.D.,  
Professor



Dr.G.Uma Maheswari, M.E., Ph.D.,  
Associate Professor



Dr.V.Rajesh Kannan, M.E., Ph.D.,  
Assistant Professor



Mr.G.Sundararaju, M.Tech.,  
Assistant Professor



Mr.R.Kumaravel, M.E., (Ph.D).,  
Assistant Professor

## Faculty Profile



Mrs.S.Athilakshmi, M.Sc., M.Phil.,  
M.E.,(Ph.D).,  
Assistant Professor



Mr.B.Muthu Krishna Vinayagam,  
M.E., (Ph.D).,  
Assistant Professor



Mr.G.Praveen Kumar, M.E., (Ph.D).,  
Assistant Professor



Mr.J.John Livingston, M.Tech.,  
(Ph.D).,  
Assistant Professor



Mr.S.Ram Prasath, M.E., (Ph.D).,  
Assistant Professor



Mr.D.Asir, M.Tech., (Ph.D).,  
Assistant Professor



### Faculty Profile



Mrs.X.Ignatius Selvarani, M.E., (Ph.D).,  
Assistant Professor



Mrs.E.Vijayalakshmi, M.E.,  
Assistant Professor



Mr.D.Raj, M.E, (Ph.D).,  
Assistant Professor



Mrs.K.Leelarani, M.E., (Ph.D).,  
Assistant Professor



Ms.D.Pradhiba, M.Tech.,  
Assistant Professor



Mrs.S.Maria Sobana, M.E.,  
Assistant Professor

## Faculty Profile



Mrs.G.Rohini priya, M.E., (Ph.D).,  
Assistant Professor



Mrs.G.A.Muthuchelvi, M.E., (Ph.D).,  
Assistant Professor



Mrs.S.Saraswathi, M.E.,  
Assistant Professor



Mrs.G.C.Pushpalatha, M.E.,  
Assistant Professor



Mrs.S.Archana Devi, M.E., (Ph.D).,  
Assistant Professor



Mrs.T.Divya, M.E., (Ph.D).,  
Assistant Professor

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### Faculty Profile



Mrs.M.Mohana, M.E., (Ph.D.,)  
Assistant Professor



Mrs.K.Priyadharshini, M.E., (Ph.D.,)  
Assistant Professor



Ms.I.Shalom Priscilla, M.E.,  
Assistant Professor



Mrs.R.Swathi pugal, M.E.,  
Assistant Professor of Practice

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## **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

### **VISION OF THE INSTITUTION**

TO MAKE THE INSTITUTION THE ONLY OF ITS KIND IN THE FIELD OF RESEARCH AND DEVELOPMENT ACTIVITIES IN THE PART OF THE WORLD.

### **MISSION OF THE INSTITUTION**

TO IMPART HIGHLY INNOVATIVE AND TECHNICAL KNOWLEDGE TO URBAN AND REMOTE RURAL STUDENTS THROUGH "TOTAL QUALITY EDUCATION."

### **QUALITY POLICY**

COMMITTED TO IMPART QUALITY TECHNICAL EDUCATION IMBIDED WITH PROFICIENCY, HUMAN VALUES AND CONTINUAL IMPROVEMENTS

## **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

### **VISION OF THE DEPARTMENT**

TO MAKE THE DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING THE UNIQUE OF ITS KIND IN THE FIELD OF RESEARCH AND DEVELOPMENT ACTIVITIES IN THIS PART OF WORLD

### **MISSION OF THE DEPARTMENT**

TO IMPART HIGHLY INNOVATIVE AND TECHNICAL KNOWLEDGE TO THE URBAN AND UNREACHABLE RURAL STUDENT FOLKS IN COMPUTER SCIENCE AND ENGINEERING THROUGH "TOTAL QUALITY EDUCATION".

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING****PROGRAM EDUCATIONAL OBJECTIVES****PEO1**

Apply the necessary mathematical tools and fundamental knowledge of Computer Science & Engineering to solve the variety of Engineering problems.

**PEO2**

Develop software based solutions for real life problems and be a leaders in their profession with social and ethical responsibilities.

**PEO3**

Pursue life-long learning and research in selected fields of Computer Science & Engineering and contribute to the growth of those fields and society at large.

**PROGRAM SPECIFIC OUTCOMES****PSO1**

Professional Skills: The ability to understand, analyze and develop computer Programs in the areas related to algorithms, system software, multimedia, web design, big data analytics, and networking for efficient design of Computer-based systems of varying complexity.

**PSO2**

Problem - Solving Skills: The ability to apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business success.



## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering was established in the year 1998 with the initial intake of 40. The primary objective of our department is to provide "Total Quality Education" in the field of information and Communication Engineering, amid 120 students per year. Computer Science & Engineering, a dazzling department for ever is always a forerunner in impacting innovative & technical knowledge to the aspirants. The department of Computer Science and Engineering has excellent infrastructure facilities and is powered with the highly sophisticated lab with the higher configuration systems and servers with recent software updated to meet the demands of the IT industry, Research and Development organizations and computer related areas. The department offers an excellent academic environment with a team of highly qualified faculty who are technically sound and talented persons. Our faculty members monitor student's performance regularly and give moral support and motivation to them. Our department has a separate association called CYBERHEFT through which we conduct various technical events to student.

### HOD'S MESSAGE

"Technology is the driving force behind the evolution of our world, and at the Department of Computer Science and Engineering, we are committed to nurturing the next generation of innovators, problem-solvers, and leaders who will shape the future. As we stand at the intersection of cutting-edge research and real-world applications, our mission is to empower students with the knowledge, skills, and mindset to tackle global challenges and create transformative solutions. This tech magazine serves as a testament to the incredible advancements and ideas emerging from our vibrant community. It is a platform to celebrate creativity, collaboration, and the relentless pursuit of excellence. Let us continue to push boundaries, embrace curiosity and harness the power of technology to build a smarter, more connected and sustainable world. To our students, faculty and industry partners - your passion and dedication inspire us every day. Together, let's keep innovating, learning, and leading the way in the ever-evolving landscape of technology."

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



Dr. A. Meenakshi, Professor and Head of the Department of Computer Science and Engineering at Kamaraj College of Engineering and Technology, Near Virudhunagar, has over 25 years of teaching experience and nearly 15 years of research experience in the field of Computer Science and Engineering. She obtained her Master of Engineering in Computer Science and Engineering from Anna University, Chennai and her Ph.D. in Information and Communication Engineering, specializing in Machine Learning from the same university.

Dr. Meenakshi has published more than 15 papers in reputed national and international journals and presented over 20 papers at national and international conferences. She is a recognized research supervisor under the Information and Communication Engineering domain at Anna University, Chennai and currently guides seven research scholars.

Her research interests include Big Data Analytics, Machine Learning, and Deep Learning. She is also a member of the Computer Society of India (CSI) and a life member of the Indian Society for Technical Education (ISTE).

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# **DEPARTMENT ACTIVITIES**



### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## The State level "YOUNG MINDS TECH FEST"

NOVEMBER 22, 2025



THE DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING PROUDLY ORGANIZED THE STATE-LEVEL "YOUNG MINDS TECH FEST – EDITION 1" IN COLLABORATION WITH RAAM TECHLINK ON 22 NOVEMBER 2025. THE EVENT SERVED AS A DYNAMIC PLATFORM FOR ASPIRING TECHNOLOGISTS TO SHOWCASE THEIR INNOVATION, TECHNICAL EXPERTISE, AND COLLABORATIVE SPIRIT WHILE FOSTERING ACADEMIC EXCELLENCE AND INDUSTRY INTERACTION.

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### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## ALUMINI EVENTS

NOVEMBER 1, 2025



THE DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING CONDUCTED AN ALUMNI INTERACTION PROGRAMME ON 1 NOVEMBER 2025, STRENGTHENING THE BOND BETWEEN ALUMNI AND STUDENTS. THE EVENT FEATURED INSPIRING CAREER GUIDANCE, INDUSTRY INSIGHTS AND INTERACTIVE DISCUSSIONS, MOTIVATING STUDENTS TO EXCEL IN THEIR ACADEMIC AND PROFESSIONAL JOURNEYS.

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# FACULTY ACHIEVEMENTS



### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

MRS. S.ATHILAKSHMI, MR. B.MUTHUKRISHNAVINAYAGAM, MR. S.RAM PRASATH, MRS.X.IGANTIUS SELVARANI, MRS. K.LEELARANI AND MRS. G.A.MUTHUCHELVI, FROM THE DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ATTENDED AN INDUSTRIAL TRAINING PROGRAMME ON “ADVANCED C PROGRAMMING: CRAFTING EFFICIENT CODE” FROM 11.12.2025 TO 18.12.2025





## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### DEPARTMENT MONTHLY REPORT

MONTH – NOVEMBER (01/11/2025 TO 30/11/2025)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## Report on Academics & Research

### Journal Publications by Faculty members

| S.No | Name of the Faculty with co-Authors | Title of the Paper                                                            | Title of the Journal                            | Vol. No., Issue No., Page No., Month & Year | Impact Factor, if any |
|------|-------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|-----------------------|
| 1    | Dr.A.Anandh, ASP- CSE               | A Hybrid Fuzzy MCDM Approach for Security Analysis and Portfolio Optimization | International Journal of Environmental Sciences | Vol.11, No. 22s, pp.7005-7010, Nov 2025     |                       |



## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Conference Publications by Faculty members

| S.No. | Name of the faculty with Co-Authors | Title of the Paper                                                                                      | Title of the Conference                                                                             | Date & Venue of Conference | Sponsored by, if any |
|-------|-------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------|----------------------|
| 1     | Mrs. X. Ignatius Selvarani, AP/CSE  | Emotion-Responsive Learning: Enhancing Autism Education Through Adaptive Technology (Paper Code: 10176) | International Conference on Advances in Artificial Intelligence and Computer Science (ICAAICS-2025) | 10/11/2025<br>Madurai      |                      |



## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Book /Chapter Published by Faculty members

| S. No. | Name of the faculty with Co-Authors | Title of the Paper         | Title of the Book                         | Volume No. & Page No. |
|--------|-------------------------------------|----------------------------|-------------------------------------------|-----------------------|
| 1      | Dr. A. Anandh,<br>ASP-CSE           | Revolutionizing Healthcare | Machine Learning for Medical Applications | Vol. I, pp. 635-686   |



## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Report on Staff Development Programme FDP/Workshop/Seminar attended by Faculty members

| S.No | Name of the faculty           | Name of the Programme                                   | Date                           | Organizing Institution | Sponsored by,if any             | Participated /Presented |
|------|-------------------------------|---------------------------------------------------------|--------------------------------|------------------------|---------------------------------|-------------------------|
| 1.   | Mrs. Athilakshmi.S,<br>AP/CSE | "Deep Learning Computer for Vision"<br>Pre-Confirmation | 03/11/2025<br>to<br>08/11/2025 |                        | Tripura Institute of Technology | Participated            |
| 2.   | Mr.Asir. D,<br>AP/CSE         | Seminar                                                 | 21/11/2025                     |                        | -                               | Presented               |

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING****MEMBERSHIP IN PROFESSIONAL BODIES**

| S.No | Name of the Faculty            | Professional Body/Society | Category/Grade of Membership | Membership No.,if any      |
|------|--------------------------------|---------------------------|------------------------------|----------------------------|
| 1    | Dr.A.Meenaksh                  | ISTE, CSI                 | Life                         | LM37500,<br>F8004138       |
| 2    | Dr.R.Ramya                     | ISTE                      | Life                         | LM39347                    |
| 3    | Dr.A.Anandh                    | ISTE, CSI                 | Life                         | LM73812,<br>F8004139349397 |
| 4    | Mrs. S.Athilakshmi             | IAENG                     | Life                         | LM59512                    |
| 5    | Mr.B.Muthukrishnavi<br>nayagam | ISTE                      | Life                         | LM59485                    |
| 6    | Mrs.K.Muthulakshmi             | ISTE                      | Life                         | LM80118                    |
| 7    | Ms.S.Janani                    | ISTE                      | Life                         | LM86893                    |
| 8    | Mrs. K. Leelarani              | ISTE                      | Life                         | LM104237                   |
| 9    | Mr.V.Rajesh Kannan             | ISTE                      | Life                         | LM129088                   |
| 10   | Mrs.X.Ignatius<br>Selvarani    | ISTE                      | Life                         | LM94406                    |
| 11   | Mrs.X.Ignatius<br>Selvarani    | AMIEE                     | Life                         | AMI/25/O1672               |
| 12   | Mrs.X.Ignatius<br>Selvarani    | IAENG                     | Life                         | 534723                     |



### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

- Mrs. X.Ignatius Selvarani, AP/CSE completed NPTEL online Certification Course on Introduction to Industry 4.0 and Industrial Internet of Things with Elite + Gold + Topper 5% Category.
- Mrs. Athilakshmi.S, AP/CSE, obtained Oracle Cloud Infrastructure 2025 Certified Data Science Professional from Oracle University
- Ms.Priyadharshini, AP/CSE completed online certification in "GENAI foundations" offered by AWS academy.
- Thirteen faculty from CSE department completed "Introduction to Generative AI Artificial intelligence and Machine Learning" certification from future skills prime in association with NASSCOM
- Mr. Raj, AP/CSE completed online certification in "GENAI foundations" offered by AWS academy.
- Dr. A. Meenakshi, Prof. & HoD-CSE, Ms. Leelarani, AP/CSE visited Chainsys-Madurai and interacted with HR Manager, Project Manager and KCET Alumni on 21/11/25
- Mr. John Livingston. J, AP/CSE and Mr. Ramprasath. S, AP/CSE visited various IT companies in Chennai on 12/11/2025 & 13/11/2025 and explored Internship cum Placement opportunities for IV CSE Students
- The Department of CSE conducted a Pre-Placement Talk on 20/11/2025 for IV CSE students in preparation for the campus drive to be conducted by Jilaba Software Services, Chennai.

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

- Mr. D. Asir, AP/CSE successfully completed the NPTEL 12-week course “Introduction to Machine Learning” with Elite certification. The course was offered during July to October 2025.
- Dr. A. Meenakshi, Prof. & HOD/CSE successfully completed the NPTEL 8-week course Big Data computing with Elite + Silver certification during July to October 2025.
- Ms. Leelarani, AP/CSE successfully completed the NPTEL course Programming in Java with Elite + Gold certification and ranked within the Top 5% of learners.
- Mrs.X.IGNATIUS SELVARANI, completed NPTEL online Certification Course on The Joy of Computing using Python with Elite + Silver Category.
- All the faculty members of the Department of Computer Science and Engineering have successfully completed the “AWS Academy Graduate – Generative AI Foundations” certification from AWS Academy.
- Faculty from the Department of CSE published the copyright Title: Learning Tableau through Experiments Number : LD-43131/2025-CO Date of Filing: 25/10/2025 Date of ROC: 26/11/2025 Authors: Ms.G.Rohini Priya Ms.S.Athilakshmi Mr.G.Praveen Kumar Ms.T.Divya Mr.B.Muthukrishna Vinayagam Mr.R.Kumaravel



## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### DEPARTMENT MONTHLY REPORT

MONTH – DECEMBER (01/12/2025 TO 31/12/2025)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### JOURNAL PUBLICATIONS BY FACULTY MEMBERS

| S.No. | Name of the faculty with Co-Authors | Title of the Paper                                                | Title of the Journal                                      | Vol. No., Issue No., Page No., Month & Year | Impact Factor, if any |
|-------|-------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------|-----------------------|
| 1     | Dr.A.Anandh, ASP-CSE                | An Enhanced Edge Preserving Technique for Multifocus Image Fusion | Journal of Theoretical and Applied Information Technology | Vol. 103, No. 21, pp. 9006-9017, 2025       | 0.168                 |

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

FACULTY MEMBERS OF OUR COLLEGE PURSUING PH.D.,  
(REGISTERED DURING THIS PERIOD)

| S. No. | Name of the faculty | Date of Registration | University      | Name of the Supervisor | Status of Ph.D. Work        |
|--------|---------------------|----------------------|-----------------|------------------------|-----------------------------|
| 1      | Mr. D. Asir, AP/CSE | 29/12/2025           | Anna University |                        | Received confirmation order |

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING****REPORT ON STAFF DEVELOPMENT PROGRAMME  
FDP/WORKSHOP/SEMINAR ATTENDED BY FACULTY MEMBERS**

| S. No | Name of the faculty                | Name of the Programme                          | Date                          | Organizing Institution         | Sponsored by, if any | Participated / Presented |
|-------|------------------------------------|------------------------------------------------|-------------------------------|--------------------------------|----------------------|--------------------------|
| 1     | Mr.D. Asir, AP/CSE                 | Introduction to Machine Learning               | 01/07/2025<br>-<br>01/10/2025 | NPTEL - AICTE                  | -                    | Participated             |
| 2     | Mr.D. Asir, AP/CSE                 | Modern Web Development & AI Integration        | 10/11/2025 - 14/11/2025       | Next Gen Employability Program | -                    | Participated             |
| 3     | Mrs. X. Ignatius Selvarani, AP/CSE | Industry 4.0 and Industrial Internet of Things | July – Dec 2025               | AICTE                          | -                    | Participated             |
| 4     | Mrs. X. Ignatius Selvarani, AP/CSE | The Joy of Computing using Python              | July – Dec 2025               | AICTE                          | -                    | Participated             |



## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### VAC/FDP/WORKSHOP/SEMINAR/CONFERENCES/GUEST LECTURES ORGANIZED

| S. No. | Name of the Programme                                                    | Date                     | No. of Participants | Resource Persons/ Chief Guest                             | Coordinators                                                                                |
|--------|--------------------------------------------------------------------------|--------------------------|---------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 1      | International Certification training program on "AWS Cloud Practitioner" | 09/12/2025               | 34                  | Ms. Sakthi Rajagopal<br>Isysway Technologies,<br>Tanjore, | Ms.E.Vijayalakshmi, AP-CSE,<br>Ms.I.Shalom Priscilla, AP-CSE,<br>Ms.G.Rohini Priya, AP-CSE. |
| 2      | Career to Campus                                                         | 08/12/2025 to 22/12/2025 | II Year CSE- 46     | Mr.M.Rajesh Kannan<br>Paruvaththae Payir Sei              | Mr.R.Kumaravel, AP-CSE<br>Mr.G.PraveenKumar, AP-CSE                                         |



## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### HONOURS /AWARDS BY FACULTY MEMBERS

| S. No. | Name of the faculty member        | Details of the Award                                       | Awarded by | Month & Year |
|--------|-----------------------------------|------------------------------------------------------------|------------|--------------|
| 1      | Ms. X. Ignatius Selvarani, AP/CSE | NPTEL Discipline Star                                      | NPTEL      | Dec 2025     |
| 2      | Ms. K. Leelarani, AP/CSE          | Top Performing Mentor for the course "Programming in Java" | NPTEL      | Dec 2025     |



## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### MEMBERSHIP IN PROFESSIONAL BODIES

| S.NO. | Name of the Faculty | Name of the professional Society/Body at National and International level | Name of the Grade/Level/ Position | Validity Period        |
|-------|---------------------|---------------------------------------------------------------------------|-----------------------------------|------------------------|
| 1     | Dr.A.Meenakshi      | Indian Society for Technical Education                                    | LM37500                           | Life Member            |
|       |                     | Computer Society of India                                                 | F8004138                          | Valid up to 31/08/2027 |



### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

|   |                    |                                                     |               |                      |
|---|--------------------|-----------------------------------------------------|---------------|----------------------|
| 2 | Dr.A.Anandh        | Indian Society for Technical Education              | LM73812       | Life Member          |
|   |                    | International Association of Engineers              | 349397        | Life Member          |
|   |                    | Institute for Engineering Research and Publication. | PROF-80035965 | Valid up to 9/7/2026 |
| 3 | Dr.G.Uma Maheswari | Indian Society for Technical Education              | LM59122       | Life Member          |
|   |                    | International Association of Engineers              | LM59122       | Life Member          |
| 4 | Dr.V.Rajesh Kannan | Indian Society for Technical Education              | LM129088      | Life Member          |
| 5 | Ms.S.Athilakshmi   | Indian Society for Technical Education              | LM59512       | Life Member          |
|   |                    | International Association of Engineers              | 532048        | Life Member          |



## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

|    |                                |                                                       |                  |                          |
|----|--------------------------------|-------------------------------------------------------|------------------|--------------------------|
| 6  | Mr.B.Muthukrishna<br>Vinayagam | Indian Society for<br>Technical Education             | LM59485          | Life Member              |
| 7  | Ms.X.Ignatius Selvarani        | Indian Society for<br>Technical Education             | LM94406          | Life Member              |
|    |                                | AMIEE Association                                     | AMI/25/O16<br>72 | Life Member              |
| 8  | Mr.D.Asir                      | International Association<br>of Engineers             | 218235           | Life Member              |
| 9  | Mr.J.John Livingston           | International Association<br>of Engineers             | 207135           | Life Member              |
| 10 | Ms.K.Leelarani                 | Indian Society for<br>Technical Education             | LM104237         | Life Member              |
|    |                                | International Association<br>of Engineers             | 347986           | Life Member              |
| 11 | Ms.E.Vijayalakshmi             | International Association<br>of Engineers             | 520541           | Life Member              |
|    |                                | Institute for Engineering<br>Research and Publication | 55339214         | Valid up to<br>12/7/2026 |
| 12 | Ms.M.Mohana                    | Indian Society for<br>Technical Education             | LM113331         | Life Member              |
|    |                                | International Association<br>of Engineers             | 143766           | Life Member              |



## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

|    |                     |                                                    |           |                         |
|----|---------------------|----------------------------------------------------|-----------|-------------------------|
| 13 | Ms.K.Priyadharshini | International Association of Engineers             | 534459    | Life Member             |
| 14 | Mr.G.Praveen Kumar  | Computer Society of India                          | F8005319  | Valid up to 31/08/2027  |
| 15 | Mr.D.Raj            | Computer Society of India                          | F8005318  | Valid up to 31/08//2027 |
|    |                     | Indian Society for Technical Education             | LM135259  | Life Member             |
| 16 | Mr.R.Kumaravel      | International Association of Engineers             | 534667    | Life Member             |
|    |                     | Institutions of Engineers (India)                  | AM1259620 | Life Member             |
|    |                     | Indian Society for Technical Education             | LM72624   | Life Member             |
| 17 | Mr.S.Ram Prasath    | International Association of Engineers             | 339533    | Life Member             |
|    |                     | Institute for Engineering Research and Publication | 79077354  | 1 year                  |

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

|    |                       |                                        |               |             |
|----|-----------------------|----------------------------------------|---------------|-------------|
| 18 | Ms.T.Divya            | International Association of Engineers | 534666        | Life Member |
|    |                       | AMIEE Association                      | AMI/25/O17 22 | Life Member |
| 19 | Ms.S.Archana Devi     | International Association of Engineers | 534748        | Life Member |
| 20 | Ms.G.Rohinipriya      | International Association of Engineers | 534662        | Life Member |
|    |                       | AMIEE Association                      | AMI/25/O17 24 | Life Member |
| 21 | Ms.G.A.Muthuchelvi    | International Association of Engineers | 534730        | Life Member |
| 22 | Ms.G.C.Pushpalatha    | International Association of Engineers | 534736        | Life Member |
| 23 | Ms.I.Shalom Priscilla | International Association of Engineers | 534728        | Life Member |
| 24 | Ms.S.Mariasobana      | International Association of Engineers | 530944        | Life Member |
| 25 | Ms.S.Saraswathi       | International Association of Engineers | 367355        | Life Member |
| 26 | Mr.G.Sundararaju      | Indian Society for Technical Education | LM56321       | Life Member |

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### OTHERS:

- THE DEPARTMENT OF CSE IS ORGANIZING 15-DAY INTERNSHIP PROGRAM ON "CAREER TO CAMPUS" FOR II CSE STUDENTS FROM 08/12/25 TO 22/12/25.
- THE DEPARTMENT OF CSE IS ORGANIZING TRAINING SESSIONS ON INTERNATIONAL CERTIFICATION COURSES AWS CLOUD PRACTITIONER AND AWS SOLUTIONS ARCHITECT FOR II AND III YEAR CSE STUDENTS. THE TRAINING COMMENCED ON 09/12/2025.
- MS. ATHILAKSHMI, MR. RAMPRASATH, MS. LEELARANI, MS. IGNATIUS SELVARANI AND MS. MUTHUCHELVI VISITED THE SURESOFT SYSTEMS OFFICE ON 16/12/2025. THIS INDUSTRIAL VISIT PROVIDED VALUABLE INSIGHTS INTO THE LATEST INDUSTRY PRACTICES AND ENHANCED THEIR UNDERSTANDING OF EMBEDDED SYSTEMS.
- THE DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING CONDUCTED THE EVEN SEMESTER ORIENTATION PROGRAMME FOR III & II YEAR CSE STUDENTS ON 29TH DECEMBER 2025.

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# ARTICLE



## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### LEARNING FROM THE UNUSUAL: HOW MACHINE LEARNING CAN FIND HIDDEN PATTERNS IN DIGITAL EVIDENCE

A network can generate millions of events in a single day. Most of them are ordinary: a user opening a website, a server contacting a database, a device requesting DNS information, or an application sending routine data. Hidden among these normal activities may be small traces of a security incident. For a human investigator, finding those traces manually can be like looking for a few unusual sentences in a book containing millions of words. Machine learning can help by learning patterns in network behaviour and directing investigators towards events that deserve closer examination. The important role of machine learning in network forensics is not simply to announce that something is "malicious." Its more useful role is to identify relationships and deviations that might otherwise remain unnoticed. A model can learn characteristics such as connection frequency, duration, packet or flow statistics, destination patterns, protocol usage, and timing. When a device suddenly behaves very differently from its historical pattern, the event can become a valuable forensic lead.

This is especially useful when labelled examples of every possible attack do not exist. Supervised learning depends on labelled training data, but cybersecurity changes rapidly, and new attack techniques may not resemble previously labelled incidents. Unsupervised and semi-supervised approaches can instead help group similar network behaviour or identify observations that do not fit established patterns. Research on anomaly detection has long explored this idea because unusual behaviour can sometimes reveal previously unknown threats [1].

Consider a workstation that normally communicates with a small group of internal services during office hours. One evening, it begins making short connections to many unfamiliar destinations at regular intervals. None of the individual connections may be enough to prove that the workstation has been compromised. However, an anomaly-detection system could flag the change from the workstation's normal behaviour. An investigator could then correlate the network activity with DNS records, authentication events, endpoint processes, firewall logs, and file activity. Machine learning can therefore help narrow the investigation without replacing the investigator's role.

Another promising application is forensic timeline assistance. Security evidence is often scattered across different systems, and timestamps may use different formats or levels of precision. Machine learning can help group related events and identify recurring temporal patterns. This could make it easier for an investigator to move from thousands of isolated records towards a smaller set of connected events. The final interpretation, however, still requires human validation because statistical correlation does not automatically establish causation.

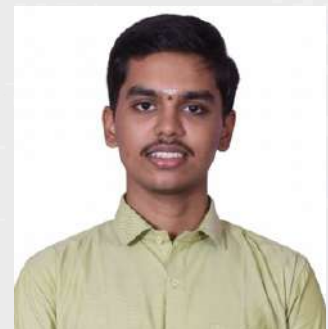
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One of the less visible challenges is concept drift. A model trained on yesterday's network may not understand tomorrow's normal behaviour. New applications, cloud services, remote workers, software updates, and changes in business activity can all alter the baseline. If the model treats every change as suspicious, investigators may be overwhelmed by false positives. If the model adapts too aggressively, genuine anomalies may become part of the new "normal." Maintaining an appropriate baseline is therefore a continuing forensic challenge rather than a one-time machine-learning task.

There is also a crucial difference between an ML prediction and digital evidence. A model may assign a high anomaly score to a network session, but that score does not prove that an attack occurred. Forensic conclusions should be supported by traceable evidence, documented procedures, and appropriate integrity controls. NIST guidance emphasises the collection, protection, analysis, and reporting of forensic evidence [2]. Machine learning should therefore be treated as an investigative assistant whose findings can guide attention, while the underlying evidence remains available for verification.

The future of machine learning in network forensics may not be about creating a machine that solves an investigation automatically. A more realistic and useful goal is to build systems that help investigators identify connections that are difficult to see at scale. The machine can notice an unusual pattern; the investigator can ask why it occurred; and independent evidence can then confirm or challenge the explanation. In this partnership, machine learning becomes more than an alarm system—it becomes a way of navigating the enormous evidence landscape created by modern networks.

In cybersecurity, the hardest evidence to find is often not the loudest evidence. It may be a small change in timing, an unfamiliar communication pattern, or a relationship between events that initially appear unrelated. Machine learning can help bring these hidden patterns to the surface. However, the final forensic story should always remain explainable, verifiable, and grounded in evidence. The machine may point to the footprint; the investigator still has to understand whose footprint it is and how it got there.



**SANJAI M L**

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