



NEWSLETTER

CSE SPECTRUM



President Message

Dr. T Venkat Vardhan

It is indeed a proud moment that the Computer Science and Department has initiated to bring out its Ninth edition of "CSE Spectrum". I would like to see very active student A participation and also more activities to be covered in the coming editions. I wish all students to excel in the coming examinations. I wish this newsletter to continue and attain the heights of excellence. My best wishes to everyone associated with this newsletter, and special thanks to the editorial team.



Principal's Message

Dr. Syed Ariff

It gives me immense joy to share that "CSE Spectrum" is doing very well. I appreciate the hard work of all students; faculty and whole heartedly thank them for presenting the Ninth edition of Newsletter in a very informative and attractive way. This Newsletter consists of various articles on current trends meticulously curate by our editorial team. We hope it will inspire you and enrich you with practical knowledge in the field of Computer Science and Engineering. Once again, deepest gratitude to everyone for making the newsletter a great source of learning.



HOD's Message

Dr. Geetha C Megharaj

I am delighted to share that "CSE Spectrum" is thriving and making remarkable progress. I want to take a moment to acknowledge the hard work and dedication each one of you brings to our department. Our collective progress this past term has been remarkable, marked by innovative projects, collaborative efforts, and consistent growth in our goals. Your commitment continues to push our department forward, and I am grateful for the energy, creativity, and resilience you demonstrate daily.



About the Department

The department of Computer Science and Engineering (CSE) was established in the academic year of 1988 with an intake of 60 and further enhanced to 240 seats in BE. The department has well equipped laboratories with updated software and hardware with an emphasis on practical learning in addition to curriculum. The department has well qualified and experienced faculties having extensive expertise and experience in their chosen fields. Faculties are actively involved in researching core areas of Computer Networks, Cloud Computing, Image Processing, Machine Learning, Data Mining and Artificial Intelligence.

The department endorses Industry-Institute Interactions under a governed MHRD's IIC. Department is associated with pioneer industry players like, TCS under CSR scheme for TCS-IT Employability Program since 2016, CISCO Networking Academy and Red Hat Academy for global certification in-campus touching beyond the syllabus limits. A well-furnished and established training and placement facilities are provided under various firms like Seventh Sense, FACE Academy and regular assessments are assessed from AMCAT and Co CUBES, for the year 2017-18 and 18-19, the Training and Placement department has offered 80+ placement opportunities and support to students in various MNC companies such as TCS, Accord, Wipro, Infosys, Mphasis, Tech Mahindra and many with a success rate of 75% students landing in jobs, 20% of Higher studies and rest as entrepreneurs.

The department is recognized under the MHRD established institutional level's Institute Innovation Council (IIC) since November 2018 by Govt. of India. The IIC encourages students and faculties to emerge and innovate recent developments in research and technology. The department has organized two national level conferences and one international level conference (ICRTTEAS - 2024) and the research outcomes are streamlined and published under various peer reviewed journals. The department's contribution in research and publications is recorded and archived in various prestigious indexing services such as Science Citation Index (SCI), Web of Science (WOS) and SCOPUS. The publications are supported and published by IEEE, Springer Nature, WILEY, Elsevier and Index science.

VISION

To produce highly competent and innovative Computer Science professionals through excellence in teaching, training and research

MISSION

- M1: To provide appropriate infrastructure to impart need-based technical education through effective teaching and research.
- M2: To involve the students in innovative projects on emerging technologies to fulfill the industrial requirements.
- M3: To render leadership skills and ethical responsibilities in students that leads hem to become globally competent professionals.

Program Education Objectives (PEO's)

Our graduates will be able,

- PEO1 : To succeed in computing industry through effective analysis, design and development skills.
- PEO2 : To Acquire new skills to work in multidisciplinary areas with strong focus on innovation and entrepreneurship.
- PEO3 : To collaborate as team members and team leaders with ethics and good communication skills.

Program Specific Outcomes (PSO's)

- PSO1: Apply computational skills to address real world problems in emerging technologies such as Computer Networks, Web Technology, cloud computing, Machine learning and IoT.
- PSO2: Apply Managerial, Research and Entrepreneur skills to contribute effectively in IT industry.

CHIEF-EDITOR
Dr. GEETHA C MEGHRAJ
HOD CSE

Co- EDITORS
Prof. ASHWINI S
Prof. PUNITHA F



DEPARTMENT ACTIVITIES

INFINOX CLUB ACTIVITIES



The workshop titled “Framework for Effective Research Article” was organized by the Department Technical Club INFINOX, Dr. TTIT, in association with the Department of Computer Science and Engineering, Dr. TTIT. The resource person was Dr. Jansi Rani, Associate Professor, Dept. of CSE, Dr. TTIT. The workshop was held on 21st August 2025 at CSE 227 for 5th Semester students.



A workshop on “Framework for Effective Research Article” was organized by the Department Technical Club INFINOX, Dr. TTIT, in association with the Department of Computer Science and Engineering, Dr. TTIT. The session was conducted by Dr. Jansi Rani, Associate Professor, Dept. of CSE, Dr. TTIT. It was held on 29th September 2025 for 5th Semester students.



The workshop titled “Innovate and Automate: The Engineering Side of E-Commerce” was organized by the Department of Computer Science and Engineering, Dr. TTIT, in association with the CSI Student Branch and Student Club INFINOX, Dr. TTIT. The session was conducted by Prof. Ashwini Priyanka, Assistant Professor, Dept. of CSE, Dr. TTIT. It was held on 11th October 2025 for 7th Semester students and 12th October 2025 for 5th Semester students.



An awareness program titled “Behind the Screens – The World of Cyber Crime Awareness for a Safer Digital World” was organized by the Department Technical Club INFINOX, Dr. TTIT, in association with the Department of Computer Science and Engineering, Dr. TTIT. The session was conducted by Mr. Lakshmi Narayana, Inspector, Cyber Crime Police Station, KGF, and Mr. Manikanta V., Police Officer & Resource Person, Cyber Crime Police Station, KGF. It was held on 30th October 2025.





An enlightening session on “Calm and Connect – Nurturing Student Well-Being: Neurobiological Process” was organized by the Department Technical Club INFINOX, Dr. TTIT, in association with the CSI Student Branch, Dr. TTIT. The session was conducted by Shree Ganeshji, Global Neurobiological Process and Yoga Wellness Trainer & Motivational Speaker, and was held on 14th November 2025.

FDP'S ATTENDED BY FACULTY

- All faculty members of the department attended a five-day Faculty Development Program (FDP) on “Deep Learning and Its Applications,” held from 28th August to 2nd September, at Dr. TTIT, KGF, in association with the Institution of Engineers (India) – IEI.

Dr. G. Kharmega Sundararaj

1. Recent Advancements in AI & ML Organized by St. Joseph's College of Engineering in association with National Institute of Technology Karnataka (STEP) and Pantech e-Learning on 30-06-2025 to 04-07-2025.
2. Generative AI with LLM Organized by STEP National Institute of Technology Karnataka in association with Pantech e-Learning on 07-07-2025 to 11-07-2025.
3. Integrating Swarm Intelligence with Artificial Intelligence and Machine Learning Organized by Panimalar Engineering College in association with Pantech e-Learning on 14-07-2025 to 19-07-2025.
4. AI, ML & Deep Learning for Autonomous Vehicles Organized by STEP National Institute of Technology Karnataka in association with Pantech e-Learning on 28-07-2025 to 01-08-2025.
5. Quantum Computing Organized by Ramrao Adik Institute of Technology in association with New Horizon College of Engineering and KIIT University in collaboration with ExcelR Edtech Pvt. Ltd. on 11-08-2025 to 18-08-2025.
6. Deep Learning, Gen AI and their Applications in Agriculture Organized by Tezpur University in association with Pantech e-Learning on 11-08-2025 to 18-08-2025.
7. Recent Trends on AI – Text, Vision and Hardware Implementation Models Organized by Panimalar Engineering College in association with STEP National Institute of Technology Karnataka and Pantech Solutions Pvt. Ltd on 28-08-2025 to 02-09-2025.
8. GEN AI – RAG (Retrieval-Augmented Generation) Organized by Chaitanya Bharathi Institute of Technology and MVSR Engineering College in collaboration with ExcelR Edtech Pvt. Ltd on 08-09-2025 to 12-09-2025.
9. Artificial Intelligence and Machine Learning Organized by Rajiv Gandhi University in association with Pantech e-Learning on 15-09-2025 to 19-09-2025.
10. Digital Transformation in Higher Education Organized by Vidyavardhaka College of Engineering on 13-10-2025 to 17-10-2025.
11. Recent Trends and Future Perspective of AI in Image Processing - Tools, Techniques and Applications: Research Perspective Organized by S.A. Engineering College in association with Pantech Solutions Pvt. Ltd on 13-10-2025 to 17-10-2025.
12. Recent Advancements in Machine Learning: Emerging Tools, Techniques and Applications Organized by Prathyusha Engineering College in association with Pantech Solutions Pvt. Ltd on 24-11-2025 to 28-11-2025.



Dr. Jansi Rani

- 1.STTP on “Empowering Research and Innovation: Writing, Proposal Writing, and Patent Development” – Organized by Sanjivani College of Engineering & RSP Science Hub, powered by Eclernix Edtech – 7th to 12th July 2025

Prof. Sharmilla Kumari

- 1.Blockchain Technology & Industry Applications Organized by ExcelR 18th August to 8th September 2025
- 2.Foundations of Programming with Python Organized by ExcelR 15th September to 6th October 2025

Prof. Mercy Flora Pritheba A

- 1.Blockchain Technology & Industry Applications Organized by ExcelR 18th August to 8th September 2025
- 2.Foundations of Programming with Python Organized by ExcelR 15th September to 6th October 2025
- 3.Introduction to Artificial Intelligence Offered by Infosys Springboard 3rd July 2025
- 4.Machine Learning and Deep Learning Training Conducted by IBM SkillsBuild 8th July 2025
- 5.Data Analytics Using Power BI Industry Programme Organized by Atria Institute of Technology & Annasaheb Dange College of Engineering & Technology in collaboration with ExcelR on 28th July to 1st August 2025

Prof. Sophia S

- 1.Quantum Computing Organized by Ramrao Adik Institute of Technology in association with New Horizon College of Engineering and KIIT University in collaboration with ExcelR Edtech Pvt. Ltd. on 11th to 18th August 2025
- 2.Augmented Reality / Virtual Reality (AR/VR) Organized by Dr. Vithalrao Vikhe Patil College of Engineering in collaboration with CV Raman Global University and ExcelR on 25th to 31st August 2025

Prof. Sangeetha V

- 1.Quantum Computing Organized by Ramrao Adik Institute of Technology in association with New Horizon College of Engineering and KIIT University in collaboration with ExcelR Edtech Pvt. Ltd. on 11th to 18th August 2025
- 2.AI-RAG Organized by Chaitanya Bharathi Institute of Technology and MVSR Engineering College in collaboration with ExcelR on 8th to 12th September 2025
- 3.Digital Marketing Organized by Dayananda Sagar University on 22nd to 26th September 2025

Prof. Preethi S

- 1.DSA for Product-Based Companies – Mastering Data Structures & Algorithms Organized by ExcelR on 21st July to 8th August 2025

Prof. Velantina V

- 2.Faculty Development Programme on “Digital Transformation in Higher Education” – Organized by Vidyavardhaka College of Engineering – 13th to 17th October 2025

Prof. Parvathi T R

- 1.Two-Week FDP on “Deep Learning” – Organized by SkillDzire in collaboration with All India Council for Technical Education – From 18th August 2025



Prof. Divyashree

1. Quantum Computing Organized by Ramrao Adik Institute of Technology in association with New Horizon College of Engineering and KIIT University in collaboration with ExcelR Edtech Pvt. Ltd. on 11th to 18th August 2025
2. Augmented Reality / Virtual Reality (AR/VR) Organized by Dr. Vithalrao Vikhe Patil College of Engineering in collaboration with CV Raman Global University and ExcelR on 25th to 31st August 2025
3. AI-RAG Organized by Chaitanya Bharathi Institute of Technology and MVSR Engineering College in collaboration with ExcelR on 8th to 12th September 2025
4. Digital Transformation in Higher Education Organized by Vidyavardhaka College of Engineering on 13th to 17th October 2025
5. Cyber Security organized by ExcelR 13th to 17th October 2025
6. Vocational Guidance Session Organized by SkillDunia in association with E-Cell IIT Hyderabad and IPA Pune on 23rd October 2025

Prof. Ashwini

1. Quantum Computing Organized by Ramrao Adik Institute of Technology in association with New Horizon College of Engineering and KIIT University in collaboration with ExcelR Edtech Pvt. Ltd. on 11th to 18th August 2025
2. Augmented Reality / Virtual Reality (AR/VR) Organized by Dr. Vithalrao Vikhe Patil College of Engineering in collaboration with CV Raman Global University and ExcelR on 25th to 31st August 2025
3. AI-RAG Organized by Chaitanya Bharathi Institute of Technology and MVSR Engineering College in collaboration with ExcelR on 8th to 12th September 2025
4. Digital Marketing Organized by Dayananda Sagar University on 22nd to 26th September 2025
5. DSA for Product-Based Companies – Mastering Data Structures & Algorithms Organized by ExcelR on 21st July to 8th August 2025
6. Autonomous Vehicles and Electric Vehicles Organized by ExcelR on 6th to 24th October 2025

Prof. Anandha Mithra A

1. Quantum Computing Organized by Ramrao Adik Institute of Technology in association with New Horizon College of Engineering and KIIT University in collaboration with ExcelR Edtech Pvt. Ltd. on 11th to 18th August 2025
2. Recent Advancements in AI & ML Organized by St. Joseph's College of Engineering in association with National Institute of Technology Karnataka and Pantech e-Learning on 30th June to 4th July 2025
3. Recent Trends on AI-EXT, Vision & Hardware Implementation Models Organized by Panimalar Engineering College in association with National Institute of Technology Karnataka and Pantech Solutions Pvt. Ltd. on 28th August to 2nd September 2025
4. AI, ML & Deep Learning for Autonomous Vehicles Organized by National Institute of Technology Karnataka and Pantech e Learning on 1st October 2025
5. AI-RAG Organized by Chaitanya Bharathi Institute of Technology and MVSR Engineering College in collaboration with ExcelR on 8th to 12th September 2025



Prof. Rakshitha

1. One-Week N FDP on Trending & Modern Teaching Methods – Organized by HI Learn EdTech Institute – 10th to 16th July 2025
2. Five-Day FDP on “Generative AI & Social AR/VR” – Organized by Nitte Meenakshi Institute of Technology in association with Madras MindWorks Pvt. Ltd. – 28th July to 1st August 2025

WORKSHOP / WEBINAR ATTENDED BY FACULTY

- **Dr. G. Kharmega Sundararaj** participated in the Webinar titled “Deep Learning and Generative AI”, held on 02nd August 2025, Department of CSE, Tezpur University in association Pantech e Learning.
- **Dr. G. Kharmega Sundararaj** participated in the Webinar titled “IoT for Social Transformation and Upliftment”, held on 19 September 2025, organized by the IoT Society of India.
- **Dr. G. Kharmega Sundararaj** participated in the Workshop titled “DevOps Workshop”, held on 25 August 2025, organized by First Bit Solutions.
- **Prof. Anandha Mithra A** completed the six-day Faculty Development Programme titled The Agentic AI Paradigm: Architecture, Enabling Technologies & Real-World Applications, organized by the Presidency School of Information Science, Presidency University, conducted from 3rd to 8th November 2025 and also completed the FDP on “Generative AI and Agentic AI,” organized by ICFAI, Hyderabad, held from 10th to 14th November 2025, 5-days N FDP on “Recent Advancement In Machine Learning: Emerging Tools, Techniques, And Applactions” organized by Prathyusha Engineering College in association with Pantech Solutions Pvt Ltd from 24th to 28th November 2025.
- **Prof. Ashwini S** attended the one-day workshop titled “Build Your Financial Security: A Workshop for Professors and Students,” organized by the Star International Foundation for Research and Education, held on 17th September 2025. And also attended one-day workshop “Training the Trainers on Innovation Design Thinking & project-based learning” at SJC institute of technology, chickkabalapura on 14 October 2025
- **Prof. Anandha Mithra A** attended the one-day webinar on “Deep Learning and Generative AI” organized by Tezpur University in association with Pantech E-Learning, conducted on 20th August 2025.

WORKSHOP CONDUCTED



Prof. Vinutha B.A. delivered a session titled “Unlocking ChatGPT: A Practical Workshop on Conversational AI,” for Lab facilitators on 16 July 2025



Prof. Shalini G. conducted a training program on “Basics of Python” for Lab facilitators on 17 July 2025. These initiatives aimed to enhance digital proficiency and promote technological awareness among participants.



PAPER PRESENTATION

- Dr. G. Kharmega Sundararaj published a Journal Paper titled “Adaptive Explainable AI Models for Bias Mitigation in High- Dimensional Biomedical Imaging Genomics” in Musik in Bayern (ISSN: 0937-583x, Vol: 90, Issue 9, pp:173-183, Sep -2025).
- Prof. Preethi S presented a research paper titled “Blockchain-Enabled Encryption Technique for Secure Data Exchange in the Health Sector” at the IEEE 5th International Conference on Soft Computing for Security Applications (ICSCSA-2025), organized by Dhirajlal Gandhi College of Technology, Salem, Tamil Nadu, from 4th to 6th August 2025.
- Prof. Ashwini S presented a paper titled “A Comprehensive Study on Edge-AI Resource Recommendation Techniques for 5G/6G Channel” at the 2025 2nd Asian Conference on Intelligent Technologies (ACOIT), held at Dr. T. Thimmaiah Institute of Technology, Kolar, from 10th to 11th October 2025.
- Prof.Swathi J A presented a paper titled ”A Survey on Predicting Heart Disease With Machine Learning Techniques” at International Conference on Harnessing AI, Quantum Computing, Sustainable Future(ICAQASF), held at east point college of engineering & technology, Bangalore from 25th& 26th July2025.

ONLINE CERTIFICATE COURSES COMPLETED BY FACULTY

- Dr.Jansi Rani completed NPTEL 12-week course on” Artificial intelligence: concepts and techniques”& "Responsible & safe AI Systems" held during July- October 2025
- Prof. Sharmila Kumari N completed Infosys springboard courses on “Fundamentals of IoT Security” on 8th July 2025 and “Introduction to Artificial Intelligence” on 3rd July 2025, “Machine Learning & Deep Learning” on 7th July 2025
- Prof. Mercy Flora Prithaba A completed Infosys springboard courses on “Introduction to Artificial Intelligence” and “Generative AI for all “on 3rd July 2025, “Machine Learning & Deep Learning” on 7th July 2025, “Artificial Intelligence for all” on 8th July 2025, “Fundamentals of IoT Security” on 9th July 2025.
- Prof. Tharadevi M completed NPTEL 12-week course on "Deep Learning " held during July- October 2025



- Prof. Shalini completed NPTEL 12-week course on "Introduction to Machine Learning" held during July- October 2025. Prof. Parvathi T R completed NPTEL 12-week course on "Introduction to Machine Learning" and "Digital Image Processing" held during July-October 2025
- Prof. Divya Shree completed Infosys springboard courses on "Networking Fundamentals", "Fundamentals of Cryptography", "Fundamentals of Information Security" "Introduction to cyber security" on 13 August 2025
- Prof. Jerusha Madhurya P completed courses on "AWS cloud technical essential" by Coursera on 7th August 2025 and "Introduction to Information Technology and AWS cloud" on 1st September 2025.
- Prof. Rakshitha Murachavar completed Infosys springboard courses on "JAVA for Beginners" on 8th July 2025, "Introduction to Cloud Computing" on 9 July 2025 and "Architecting Java Solutions for CICS: IBM Redbooks" on 25 July 2025.
- Prof. Ashwini Priyanka completed 3-months course on "Master's in Business Analytics and Digital Marketing" from HCL GUVI, Chennai held during July-September 2025

BOOK PUBLICATION

- Dr. G. Kharmega Sundararaj published a Book titled "Full Stack Development", issued by the Government of India and published by Techno Publisher, bearing the International Standard Book Number (ISBN: 978-819723624-2).

Book Chapter

- Dr. G. Kharmega Sundararaj and Dr. Geetha C. Megharaj published a Book Chapter titled "IoT Enabled Smart Sensing Systems Using RISC-V Based Microcontrollers and Embedded AI" in July 2025. The chapter was issued by the Rademics Research Institute, India, with the International Standard Book Number ISBN: 978-93-49552-42-5 (PP: 131-158).
- Dr. G. Kharmega Sundararaj, Prof. Divya Shree V, Prof. Velantina V, and Prof. Anandha Mithra A published a Book Chapter titled "IoT Communication Protocols: MQTT, CoAP, LoRa, and 5G" in August 2025. The chapter was issued by the Pencil Bitz, India, with the International Standard Book Number ISBN: 978-81-991695-3-1 (PP: 29-40).
- Dr. G. Kharmega Sundararaj published a Book Chapter titled "Data-Driven Approaches and Machine Learning Frameworks for Academic Performance Analysis", in October 2025, issued by the Rademics Research Institute, India, with the International Standard Book Number ISBN: 978-93-49552-42-5 (PP: 15-39).

FACULTY ACHIEVEMENTS

- Dr. G. Kharmega Sundararaj has been honoured with multiple prestigious recognitions in November 2025, including the "RASHTRA SEVA PURASKAR 2025" for Academic Excellence in Karnataka State awarded by Bharat Seva Society in association with Veyil Foundation on 18 November 2025; the "Sardar Vallabhbhai Patel Seva Ratha Samman 2025" for Academic Excellence in Computer Science and Engineering conferred by the Ministry of MSME, Government of India, on 26 November 2025; and the "Dr. A. P. J. Abdul Kalam Global Icon Award 2025" recognizing his outstanding contributions as an Excellent Researcher, presented by Welred Foundation on 27 November 2025.



- Dr. G. Kharmega Sundararaj served as a Reviewer for multiple prestigious international conferences in 2025, including the International Conference on Machine Learning Algorithms (ICML-ALGO 2025) held on 29–30 August 2025 at Chitkara University; the 3rd IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON 2025) organized at Nitte Meenakshi Institute of Technology on 1–2 August 2025 in association with the IEEE Bangalore Section; and the IEEE International Conference on Communication, Computer, and Information Technology (IC3IT-2025) conducted at Mysuru Royal Institute of Technology on 24–25 October 2025 in association with the IEEE Mysore Subsection and the IEEE Bangalore Section.
- Prof. Preethi S served as a Reviewer for the IEEE International Conference on Communication, Computer, and Information Technology (IC3IT-2025), held at Mysuru Royal Institute of Technology, Mandya, on 24th and 25th October 2025. The conference was organized in association with the IEEE Mysore Subsection and the IEEE Bangalore Section.

The students of the 5th semester successfully participated in an educational industrial visit to the Visvesvaraya Technological and Industrial Museum on 15th November 2025. The visit provided them with valuable insights into technological innovations, industrial advancements, and scientific exhibits that enhanced their practical understanding beyond the classroom. This experiential learning opportunity enriched their knowledge, encouraged curiosity, and supported their academic growth through real-world exposure to engineering applications.

INDUSTRIAL VISIT



ALUMNI MEET

As part of the department's Alumni Interaction Series, distinguished alumni were invited to address the 3rd semester students and share valuable industry insights.



Mr. Ashok Pillai, Principal Analyst at Multi Fonds, Bengaluru, and a proud alumnus of the 2014 batch, served as the guest speaker on 28th November. He delivered an engaging session on “Building a Career in IT and FinTech,” offering students practical guidance and motivation to navigate emerging career pathways in technology and finance.

On 29th November, Mrs. Lidiya, HR Executive (Talent Acquisition) Vision India, Bengaluru, and an alumna of the 2017 batch, addressed the students on the topic “Survivability in the Corporate World.” Her session focused on essential professional skills, workplace expectations, and strategies for excelling in today’s competitive corporate environment.



OUTREACH AWARENESS

On 20th August 2025, students from the 3rd, 5th, and 7th semesters, along with faculty members, actively participated in a rally focused on the prevention of drug abuse, alcohol addiction, and smoking. The awareness rally commenced from Five Lights and continued through MG Market - Surajmull Circle, spreading an important message on health, safety, and responsible living. The event highlighted the collective commitment of students and staff toward building a healthier community.



OUTREACH PROGRAM

STUDENT'S ACHIEVEMENTS

PAPER PRESENTATION

The following 7th semester students have presented their papers at the 8th International Conference on Recent Trends in Technology, Engineering, and Applied Sciences (ICRTTEAS 2025–26), organized by Dr. T. Thimmaiah institute of technology, KGF, held on the 21st and 22nd of November 2025.

- Bhavana KA, Bhavani B, Chandhana.C, Mehak 7th semester students have presented the paper titled "*Swap Secure-Detection of Deepfake videos*" under the guidance of Dr. Geetha C Megharaj & Prof.Premalatha.D
- Sahana N, Shevin Rozario T, Theertha R, Srinivas 7th semester students have presented the paper titled "*Detection of Phishing and SQL injection attacks using Machine Learning Algorithms*" under the guidance of Dr. Geetha C Megharaj & Prof.Thara Devi M
- Amulya M. S, Karthik.T., Keerthana S, Kethan Kumar s 7th semester students have presented the paper titled "*UPI fraud detection using machine learning*" under the guidance of Dr.Mohamed Karimulla & Prof.Velantina V
- Raghavi V, D Rakshitha, Shakthi Roshitha, Akshitha 7th semester students have presented the paper titled "*Artificial Intelligence with Deep Learning Based Automated Ear Infection Detection*" under the guidance of Dr.Mohamed Karimulla & Prof.Swathi JA
- Akash, Harsha Pradha.M, Bindhu, Prathima Krishna M 7th semester students have presented the paper titled " *Water leakage Detection system using IoT & Machine Learning Algorithms*" under the guidance of Dr.G Kharmega Sundraraj & Prof.Preethi S
- Abinaya Krishna Kumar, Rine Simon 7th semester students have presented the paper titled "*Crowd Funding Platform using Block Chain Technology*" under the guidance of Dr.G Kharmega Sundraraj & Prof.Swathi J.A
- Avinaya, Lavanya, Nandhini E, Gladwin Sujith 7th semester students have presented the paper titled "*Autonomous Self Driving Car using ML*" under the guidance of Dr.G Kharmega Sundraraj & Prof. Mercy Flora Pritheba A
- L N Sandhya, M.Vinutha, Mounika C,Mythri V 7th semester students have presented the paper titled "*3D Printable Model Generator from Text using Deep Learning Techniques*" under the guidance of Dr. Jhansi Rani & Prof. Ashwini S
- Adarsh, Shashank. B, Charan Reddy, Amar 7th semester students have presented the paper titled "*DarktraceX- AI-Powered Cyber Threat Detection and Response System*" under the guidance of Dr. Jhansi Rani & Prof. Shankareshwari
- Brinda G, Harshitha G, Pavithra S, Lakshmi Priya R 7th semester students have presented the paper titled "*Visualizing intelligence analysis and investigation techniques using cyber security*" under the guidance of Prof.Vinutha B. A & Prof.Swathi J.A
- Shaik Waheed Pasha, Sumedh, Shabaresh T, Abhishek 7th semester students have presented the paper titled "*Air Pollution monitoring system using IoT*" under the guidance of Prof.Vinutha B.A & Prof.Swathi J.A
- Rithika Roshini L R,Rohith G, SameenParveen, Umme Hani 7th semester students have presented the paper titled "*Multi-Desk AI: An Intelligent Multitasking Assistant for Desktop Users*" under the guidance of Prof. Punitha F & Prof.Ashwini Priyanka



- Anith Suga Dev T, Chandan Reddy S, Hari Krishna. S, Kalyan Venkatesh k 7th semester students have presented the paper titled "*Smart Surveillance Real-time Face recognition and Tracking*" under the guidance of Prof. Sharmila Kumari N & Prof. Divya Shree
- PriyaDharshini J, Khushi H, Shreeja G, Swathi R 7th semester students have presented the paper titled "*Smart Horticulture Lighting System*" Prof.Sharmila Kumari N & Prof.Swetha N
- Chandhana.P.R, Hasvinie P,Niharika V, Pooja B 7th semester students have presented the paper titled "*Fingerprint -based blood group detection using deep learning technique*" under the guidance of Prof.Thara Devi M & Prof. Nisha Bai M
- Aflah Kaunyn, Mehak Rafiya, Mehnaz Ul Ain, Noor Fathima 7th semester students have presented the paper titled "*Prediction of pneumonia using SWIN transformer and XAI*" under the guidance of Prof. Shalini. G & Prof.Swetha N
- Shyam Kumar G, Sneha B, Suri Arul U, Tejashwini K R 7th semester students have presented the paper titled "*Puretone: A Smart System for Voice-Based Automation and Verification*" under the guidance of Prof. Shalini. G & Prof. Linda R
- Anu MK, Jyothi, Meghana Balappa Uppar, Nandini.K.V 7th semester students have presented the paper titled "*Dream Analysis Based on Artificial Intelligence*" under the guidance of Prof. Mercy Flora Pritheba A & Prof. Lekha S
- Mohammed Al Fayad, Mohiuddin Aafaq, Murali N, N Shruthi 7th semester students have presented the paper titled "*Smart Fertilizer Advisor: IoT & ML Based Precision Agriculture*" under the guidance of Prof.Sophia S & Prof.Parvathi
- Pallavi, Rakshitha V, Veena K R, Prakash B 7th semester students have presented the paper titled "*Automatic Control of Traffic Lights at Multiple Intersections Based on Artificial Intelligence*" under the guidance of Prof.Sophia S & Prof. Ashwini S
- Bharath krish, Gowtham KR, Irfab Ahmed Raza, Nizam Uddin 7th semester students have presented the paper titled "*An AI-Powered Networking Platform*" under the guidance of Prof. Nisha Bai M & Prof. Lekha S
- Shreeya M, Shresta S, V Harini, Varsha S 7th semester students have presented the paper titled "*Deepfake Sentinel: Towards Robust Fake Face Detection Using Image Properties*" under the guidance of Prof. Nisha Bai M & Prof.Parvathi
- Harish, Hemanth.K.M, Keshava Murthy P, Prajwal Agasimundina 7th semester students have presented the paper titled "*RFID and AI Integrated Smart locking System*" under the guidance of Prof.Sangeetha V & Prof. Ashwini S
- Shaziya Begum M, Suchitra C Shananagoudar, Sushmitha N, Umme Hani 7th semester students have presented the paper titled "*Intelligent Network Traffic Detection Using ML Algorithms.*" under the guidance of Prof.Preethi S & Prof.Sangeetha V
- Seshanth N, Solomon Raj A, Yashwanth B G, Silvan Kumar 7th semester students have presented the paper titled "*Crime Prediction*" under the guidance of Prof.Velantina V & Prof. Divya Shree V



The following 5th semester students have presented their papers at the 8th International Conference on Recent Trends in Technology, Engineering, and Applied Sciences (ICRTTEAS 2025–26), organized by Dr. T. Thimmaiah institute of technology, KGF, held on the 21st and 22nd of November 2025.

- Tarun V, Yashas S Singh, Yugandar Sb, Shashank Kr 5th semester students have presented the paper title "*AI-Powered Voice Assistant*" under the guidance of Dr Geetha C Megharaj & Prof Rakshitha
- Aathika, K.Shwetha, Meraj Sultana.N, Mounika 5th semester students have presented the paper title "*Health fit-pro AI chatbot using Web Technology*" under the guidance of Dr. Geetha C Megharaj Prof. Nisha Bai. N
- Sneha V, Monisha B, Vindhya B, Nisha 5th semester students have presented the paper title "*Bake-Ease: Automated Multi-Platform Cake Ordering and Delivery App* " under the guidance of Dr Mohammed Kareemulla & Prof. Jerusha Madhurya
- Ajay S, Anish V, Ian roshan R 5th semester students have presented the paper title "*Smart Mart E-Commerce Website*" under the guidance of Dr. Mohamed Kareemulla
- Pooja E, Poojitha R, Roopa Shree N, Sindhu Dd 5th semester students have presented the paper title "*Safe Walk – Women Safety Mobile Application*" under the guidance of Dr Karmegha Sundararaj & Prof Sankareshwari
- Akshay Kumar K N, Harshitha A, Kumari Rajashree, Latha Shree R L 5th semester students have presented the paper title "*Dynamic Webpage on Department Database in College* " under the guidance of Dr. karmegha Sundararaj.G
- Sandhya.V, Veena.S, Yashaswini.B.L, Shahana.A 5th semester students has presented the paper title "*Intelligent Lost & Found Management System for Dr TTIT campus* " under the guidance of Dr Jansi Rani & Prof Ashwini Priyanka
- Akshaya K, Amulya K S, Asfa Hana, Jayapreethi J 5th semester students have presented the paper title "*Automated Classroom Attendance System* " under the guidance of Dr. Jansi Rani
- Gideon Jude J, Kiran K, Sachin T, Sanjay S5th semester students have presented the paper title "*Double Encrypted Negative Password*" under the guidance of Prof Punitha & Prof Ananda Mithra
- Alwin Christopher, Chandrika , Goutham Siddhart HR, Charlet Ebenezer 5th semester students have presented the paper title "*Tune Out Audio Streaming Platform*" under the guidance of Prof. Punitha.F
- Shree Laxmi, Spoorthi K R, Thanushree C, Varshini D 5th semester students has presented the paper title "*Spam Email/SMS Detector* " under the guidance of Prof Prema Latha & Prof Genial Pearl
- Amrutha.V.R, B.Dharani, Deepthika.K.N, G.Charu Lathika 5th semester students has presented the paper title "*YouTube Transcript Summarizer*" under the guidance of Prof. Premalatha. D
- Bhargavachari V, Faiza Iqra, Hajira Anjum, M Roshan Zameer 5th semester students have presented the paper title "*Smart Fruit Quality Assessment System Using Deep Learning*" under the guidance of Prof Thara Devi.M
- Trisha G, V Neha Anjum, Vidyashree C V, Neha Shree. G 5th semester students have presented the paper title "*Smart Shield Deep Learning and NLP Based Cyberbullying Detection System* " under the guidance of Prof Tharadevi M & Prof Sangeetha V



- Bhavana K, Chaitra S, Deepa Managuli, Hemavathi M 5th semester students have presented the paper title "*Smart Lock System with Intrusion Detection Alert Using Lot*" under the guidance of Prof Sharmila Kumar.N
- Tejashwini S, V Lavanya, Vandana M, Varsha D N 5th semester students have presented the paper title "*AI powered OTT Content recommendation*" under the guidance of Prof Sharmila Kumari N & Prof Lekha S
- Chakrapani S, Charan M L, Deeksha N R, Ganesh Sannayya Naik 5th semester students have presented the paper title "*Analyzing Agricultural Product Markets with Machine Learning- Clustering Algorithms*" under the guidance of Prof Shalini. G
- Priyanka Dm, Shalini Ac, Shilpa Py, Asfiya Naz 5th semester students has presented the paper title "*Rice yield crop prediction for Davangere using Deep Learning Techniques*" under the guidance of Prof Shalini G & Prof Preethi S
- Raksha K, Sandhya R, Shruchi Shree B, Spoorthi R 5th semester students have presented the paper title "*Advancing cyber threat prediction through Hybrid ML*" under the guidance of Prof Nisha Bai M & Prof Divya shree V
- Chandan U, Gowtham S, Hemanth Reddy L, Karthik Reddy T A 5th semester students have presented the paper title "*Identification of Plants by Image Processing and machine learning*" under the guidance of Prof.Mercy Flora
- Varunkumar MB, Vinay V, Venu Nb, Shanawaj Nadaf 5th semester students have presented the paper title "*Smart Air Quality and Environment Monitoring Dashboard using Simulated IoT Data*" under the guidance of Prof Mercy Flora F & Prof Parvathi
- Keerthan, Devmandal, Kiran kumar , Kripal naidu S 5th semester students has presented the paper title "*Interior Designing Suggestions with Deep Learning Techniques*" under the guidance of Prof Sophia. S
- Syed Madanin Shoaib, Syed Roshan Riyan, Tirumala D, Veerendra Patil 5th semester students have presented the paper title "*Encoding Data using Hybrid Steganography and Cryptography*" under the guidance of Prof Sophia S & Prof Ashwini S
- Gouri V kalgurki, Harshitha S, Haseni G, Meghana M 5th semester students have presented the paper title "*Visuals To Text: An Enchanced Approach for Automatic Image Captioning using Deep Learning Technique*" under the guidance of Prof Valentina.V
- Samuel Joshua, Praveen M Nayak, Sanjay GK, Jeevitha S 5th semester students has presented the paper title "*Touch analytics: Continuous authentication using touchscreen behavioral biometrics*" under the guidance of Prof Velantina & Prof Swetha N
- Febin Aloyshius V, Mirza Munawer Baig, Mohammed Tousif Raza, Noel Joseph J 5th semester students have presented the paper title "*Marine Pollution Control: Ocean Plastic Identification Using Machine Learning*" under the guidance of Prof Sangeetha.V
- Pavithra M, Pragathi P, Prithisha R, Rakshitha Mr 5th semester students have presented the paper title "*AI-driven fake news detection using BERT*" under the guidance of Prof Preethi S
- Hemaamaalini A, Madhumitha C, Manushree K M, Monisha V 5th semester students have presented the paper title "*People Counting System Based on Head Detection Using Faster R-CNN from Images and Videos*" under the guidance of Prof Lekha S
- Komala B, Nanditha K N, Jeevitha Reddy R, Dhanush Vishwanathan R K 5th semester students have presented the paper title "*Retinal Biometrics for Secure Identification*" under the guidance of Prof Divya Shree V



- Prithvi Raj Singh M, Rich Antony T, Sujay S, Suman R 5th semester students has presented the paper title "*Gesture Text: Machine Learning for Sign Language to Text Conversion*" under the guidance of Prof Parvathi T R
- Hitha Vaishnavi S, Pavan Kumar P R, Hyrine Princy J M, Raksha B 5th semester students have presented the paper title "*Cyber Security breaches prediction using Machine Learning*" under the guidance of Prof Ashwini S
- Vishwas R Mahendran, B Bhuvaneshwar, Gagan N, Suriya J 5th semester students have presented the paper title "*Deep Fake Image Detection*" under the guidance of Prof Swetha N
- B S Akshitha, Chinmayi, Chithana N, Nayana K P 5th semester students have presented the paper title "*AI- Based Plant Disease Detection System*" under the guidance of Prof Swathi J.A

BEST PAPER AWARD

The following students were awarded Best Paper at the International Conference on Recent Trends in Technology, Engineering, and Applied Sciences (ICRTTEAS 2025–26), held on the 21st and 22nd of November 2025.

From the 7th semester,

- Amulya, Karthik, Keerthana S, and Kethan Kumar S presented their paper titled "*UPI Fraud Detection Using Machine Learning*" under the guidance of Dr. Mohamed Karimulla and Prof. Velantina V.
- Shreeya M, Shresta S, V. Harini, and Varsha S showcased their work "*Beyond Touch: A Vision-Based System for Universe System Interaction*", guided by Prof. Nisha Bai M and Prof. Parvathi T.R.
- Rithika Roshini, Rohith G, Sarmeen, and Umme Hani, who presented "*Personalized AI-Powered Multitasking Desktop Assistant*" under the guidance of Prof. Punitha F and Prof. Ashwini Priyanka.



From the 5th semester



- Akshya K, Amulya K S, Asfa Hana, and Jayapreethi presented "*Automated Classroom Attendance System*" guided by Dr. Jhansi Rani,
- Gouri V, Harshitha S, Haseni, and Meghana shared their paper "*Visual to Text: An Enhanced Approach for Automatic Image Captioning Using DL Technology*" under the guidance of Prof. Velantina V.
- Tarun, Yashas, Yugandar, and Shashank presented "*AI-Powered Voice Assistant*", guided by Dr. Geetha C. Megharaj and Prof. Rakshitha.



- Pooja E, Poojitha, Roopa Shree, and Sindhu contributed their research on “*Safe Walk – Women Safety Mobile Application*” guided by Dr. Kharmega Sundaraj,
- Trisha G, Neha Anjum, Vidhya Shree, and Neha Shree presented “*Smart Shield: Deep Learning & NLP-Based Cyberbullying Detection System*” under the guidance of Prof. Tharadevi M and Prof. Sangeetha V.

PROJECT EXPO 2025

At the Project Expo, several student teams showcased outstanding innovation and technical excellence through their project presentations.

- Mohammed Al Fayad, Mohiuddin Aafaq, Murali N, and N. Shruthi presented “Smart Fertilizer Advisor: IoT & ML-Based Precision Agriculture” guided by Prof. Sophia S and Prof. Parvathi.
- Bhavana K.A, Bhavani B, Chandhana C, and Mehak impressed the panel with “SwapSecure – Detection of Deepfake Videos”, guided by Dr. Geetha C. Megharaj and Prof. Premalatha D.
- Amulya M.S, Karthik T, Keerthana S, and Kethan Kumar S showcased their project “UPI Fraud Detection Using Machine Learning” guided by Dr. Mohamed Karimulla and Prof. Velantina V.
- Abinaya Krishna Kumar and Rine Simon presented “Crowd Funding Platform Using Blockchain Technology” guided by Dr. G. Kharmega Sundraraj and Prof. Swathi J.A.
- “Beyond Touch: A Vision-Based System for Universal Interaction”, was presented by Shreeya M, Shresta S, V. Harini, and Varsha S guided by Prof. Nisha Bai M and Prof. Parvathi.
- Raghavi V, D. Rakshitha, Shakthi Roshitha, and Akshitha contributed with their project “Artificial Intelligence with Deep Learning-Based Automated Ear Infection Detection”, guided by Dr. Mohamed Karimulla and Prof. Swathi J.A.
- Sahana N, Shevin Rozario T, Theertha R, and Srinivas presented “Detection of Phishing and SQL Injection Attacks Using Machine Learning Algorithms” guided by Dr. Geetha C. Megharaj and Prof. Thara Devi M.

From the 5th semester

- Akshaya K, Amulya K S, Asfa Hana, Jayapreethi J, "Automated Classroom Attendance System " guided by Dr. Jansi Rani J
- Gouri V kalgurki, Harshitha S, Haseni G, Meghana M, "Visuals To Text: An Enchanced Approach for Automatic Image Captioning using Deep Learning Technique" guided by Prof Valentina.V
- Akshay Kumar K N, Harshitha A, Kumari Rajeshree, Latha Shree R L, "Dynamic Webpage on Department Database in College " guided by Dr. G. Kharmega Sundararaj
- Febin Aloyshius V, Mirza Munawer Baig, Mohammed Tousif Raza, Noel Joseph J, "Marine Pollution Control: Ocean Plastic Identification Using Machine Learning" guided by Prof Sangeetha.V
- Komala B, Nanditha K N, Jeevitha Reddy R, Dhanush Vishwanathan R K "Retinal Biometrics for Secure Identification " guided by Prof Divya Shree V
- Tarun V, Yashas S Singh, Yugandar SB, Shashank KR "Adaptive Speech Based Virtual Assistant Using Neural Models" guided by Dr Geetha C Megharaj & Prof Rakshitha



- Syed Madanin Shoaib, Syed Roshan Riyan, Tirumala D, Veerendra Patil “Stegcrypto: A hybrid Data Encryption Technique" guided by Prof Sophia S & Prof Ashwini S
- Trisha G, V Neha Anjum, Vidyashree C V, Neha Shree. G "Smart Shied Deep Learning and NLP Based Cyber Bullying Detection System" guided by Prof Tharadevi M & Prof Sangeetha V
- Prithvi Raj Singh M, Rich Antony T, Sujay S, Suman R "Gesture Text: Machine Learning for Sign Language to Text Conversion" guided by Prof Parvathi T R

ONLINE CERTIFICATE COURSES COMPLETED BY STUDENTS

NPTEL COURSES

- Rakshitha V from 7th sem completed certifications in Artificial Intelligence: Search Methods for Problem Solving from IIT Madras on 26 July 2025, Cloud Computing on 17 May 2025, and Introduction to Internet of Things on 7 August 2025.
- Pallavi V from 7th sem earned certifications in Artificial Intelligence: Search Methods for Problem Solving from IIT Madras on 7 August 2025, Introduction to Internet of Things on 7 August 2025, and Cloud Computing on 17 May 2025.
- Aflah Kaunyn from 7th sem successfully completed the Data Analytics with Python course on 22 August 2025.
- Swathi R from 7th sem completed a 12-week certification in E-Business as well as a 12-week course on Introduction to Internet of Things.
- Deepak S from 3rd sem completed an 8-week course on Introduction to Operating Systems and a 4-week course on Python for Data Science

5 students from 3rd sem completed professional courses through **Udemy**, focusing on Java and Python fundamentals.

2 students from 3rd sem completed certifications through **Coursera**, enhancing advanced technical skills and professional courses focusing on Operating Systems, Machine Learning, reflecting interest in both programming and AI/ML domains.

5 students from 3rd sem completed professional courses through **LinkedIn Learning** certifications included Python programming, Object-Oriented Programming with Java and data structure courses.

1 student from 3rd sem completed certifications through **META Learning** on Introduction to iOS, expanding expertise in mobile development.

A total of 45 students from the 5th semester have completed the Basics of Python course as a Skill Development program under **Infosys Springboard**. Additionally, 18 students completed the Java course under Programming, 16 students completed Operating Systems (OS) and 12 students completed Data Structures (DS) under Core Computer Science. Further, 7 students completed C Programming / Functions in C / Pointers in C under Programming Fundamentals, and 9 students completed Python (Advanced / Specific) under Advanced Programming. In the emerging technology domain, 2 students completed Cyber Security, 9 students completed Artificial Intelligence / Introduction to AI, 4 students completed AI for All, and 4 students completed Generative AI.



Moreover, 8 students from 3rd semester completed the Internet of Things (IoT) course, and 3 students completed Networking and Web Technologies. Under Artificial Intelligence specialization, 2 students completed Machine Learning / AI & ML Fundamentals. Additionally, 1 student each completed Introduction to Data Science, Introduction to OpenAI GPT Models, Fundamentals of C, and Website Development programs under Infosys Springboard.

STUDENT ACHIEVEMENTS



Students from the 5th and 7th semesters enthusiastically participated in Anthariksha 2025, organized by Kuppam Engineering College on 3rd – 4th September 2025. Our students showcased exceptional talent across multiple events and brought laurels to the institution.

- Shevin and Theertha (7th Semester) secured Third Prize in Vibe Coding.
- Umme Hani, Rohith, and Rithika (5th Semester) won Second Place in the Project Expo.
- Rohith (5th Semester) also achieved Third Prize in the Quiz Competition.

Aflah Kaunyn, Noor Fathima, Mehak Ul Ain, Mehak Raifya, presented the paper on title “A fine-tune SWIN Transformer approach for pneumonia Prediction” at IEEE sponsored 2025 International conference on NexGen Networks and Cybernetics (IC2NC) organized by Nandha Engineering College, Erode, during 1 to 3 December 2025 under the guidance of Prof. Shalini & Prof.Swetha N.



