

St. JOSEPH'S INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)



OMR, CHENNAI - 119











DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING









TOP NEWS

PROFESSIONAL CHAPTER ACTIVITIES

ALUMNI ACTIVITIES

CLUB ACTIVITIES

SEERA

NGO VISIT

INDUSTRY INTERACTION

FACULTY ACHIEVEMENTS

STUDENT ACHIEVEMENTS









NEXTGEN NEWS JANUARY 2025



St. JOSEPH'S







Professional Chapter Activity - IEEE Computer society

The Department of Computer Science and Engineering and IEEE Computer Society, Madras jointly organised an event on the theme "Imagination Meets Reality - Photography Contest" on 27th January 2025 from 8.00 a.m. to 9.00 a.m at CSE Lab -1, bringing together students to explore the intersection of futuristic ideas and their real-world implementations. Successfully bringing together organized an exciting event, bringing together tech enthusiasts and creative minds to explore the intersection of technology and visual storytelling. The event encouraged participants to showcase their photography skills while capturing themes related to innovation, computing, and digital transformation.

PHOTOGRAPHY CONTEST WINNERS LIST:

- Sakthi Lakshman
- Rithik V Kumar
- **✓** Sherly W

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



Batch: 2023-2027

Organizes

"Imagination Meets Reality"

II Year IEEE Students



Photography Contest
Themes

- 1. Perfectly Imperfect
- 2. Silver Lining
- 3. Aesthetics
- 4. Perspective
- 5. Generations

Prize Announced on 27.1.25



8.00 AM to 9.30 AM

CSE Lab 1

Professional Chapter Activity - Computer Society of India

The Department of Computer Science and Engineering and Computer Society of India local chapter, Kanchipuram jointly organised an event on the theme "QUIZ VIBE- State Level Quiz Competition" on 25th January 2025 from 9.00 a.m. to 3.00 p.m at AV hall -1. The state-level quiz competition, Quiz Vibe, organized by the Department of Computer Science and Engineering in collaboration with the Computer Society of India (CSI) Chapter, brought together 26 school students from 7 regions Chennai, Kancheepuram, Trivandrum, Sivakasi, Coimbatore, Trichy, Vellore, Salem, and Cochin. Competing in teams of two, the 13 teams participated in multiple rounds that tested their knowledge in General Knowledge, Science & Technology, and Logical Reasoning. After an intense and engaging competition, the top three teams emerged victorious, showcasing exceptional teamwork and intellectual prowess. This event provided an excellent platform to connect students across regions, fostering a spirit of learning and collaboration in the field of technology and beyond.













Alumni Activity – Tech Talk

The Department of Computer Science and Engineering organized an engaging Alumni Talk on Data Engineering on 31st of January 2025. The event featured Mr.Hirthick Raj DK, a Software Engineer at JMAN Group and an esteemed alumna from the Batch of 2020-2024, held in AV Hall-1 from 10.00 to 11.00 AM, the talk was specifically aimed at II-year students. The Alumni Talk on Data Engineering provided an insightful discussion on the role, responsibilities, and career pathways in data engineering. The event was an excellent opportunity for students and professionals to learn from an experienced alumnus. The speaker emphasized the growing demand for data engineers and provided practical tips on building a strong portfolio and gaining relevant experience.

KEY TAKEAWAYS:

Introduction to Data Engineering, Tech Stack & Tools, Career Pathways, Industry Trends, and Q&A Session



Alumni Activity – Mock Interview

The Department of Computer Science and Engineering organized a Mock Interview & Hands-On Session to Strengthen the Resume was a three-day event (21st, 22nd and 25th January 2025) designed to help participants enhance their resumes and improve their interview skills. Hosted by experienced alumni and HR professionals, the session provided valuable insights into resume building, interview techniques, and industry expectations.

KEY HIGHLIGHTS OF THE EVENT:

- Resume Enhancement Experts reviewed and refined resumes to align with industry standards.
- **✓** Mock Interviews Participants faced real-time interview scenarios with constructive feedback.
- HR & Alumni Insights Guidance on career growth, job market trends, and common interview mistakes.
- ✓ Interactive Q&A Personalized advice and networking opportunities.

The event saw enthusiastic participation, equipping attendees with practical skills and confidence to excel in job applications and interviews.







Club Activity - Machine Learning Club

On 22nd Januray 2025, the Machine Learning Club of the Department of Computer Science and Engineering (CSE) organized a dynamic and engaging activity titled "Brainquest – A Quiz Competition". The event aimed to deepen the participant's understanding of machine learning fundamentals and advanced concepts in a gamified format. The event featured 60 participants. The quiz, conducted via Quizizz, covered two primary sections: basic and advanced topics in machine learning. The interactive platform allowed participants to join using a shared game code, and the event was enhanced by live leaderboards and engaging visuals. A total of 15 teams participated, demonstrating an average accuracy of 75% throughout the quiz. The event featured a live leaderboard, gamifying the learning experience and keeping participants motivated. The time-limited questions and visually engaging interface added excitement and a competitive edge.









Club Activity - GLUG Club

The Department of Computer Science and Engineering, in collaboration with GLUG club conducted a seminar for Second year CSE GLUG club members on "LARGE LANGUAGE MODELS on 29th January 2025. This session was facilitated by Mr. Berwin N, III-year Student, Cyber for Women Safety Hackathon Winner, Department of Computer Science and Engineering. This session opened with an overview of Large Language Models (LLMs). During the discussion, DEEPSEEK, a recent advancement in the field, was examined along with its market implications. The conversation highlighted the advantages of utilizing tailored large language models as opposed to commercially available chatbots. Mr. Berwin's engaging facilitation and technical expertise provided an enriching learning experience. The event did break the barriers in understanding the technical jargons of large language models and made it simple for students to experiment on the models.









Club Activity - Coding Club

The Department of Computer Science and Engineering, in collaboration with Coding club conducted a competition for Second year CSE coding club members on "WEBLICATE - Prompt Crafting Competition" on 27th January 2025. The main objective of coding club aims to establish a coding culture on campus, reaching every student passionate about coding. The club's motto is to Create-Build-Innovate. The benefits of such a program are to ensure opportunities for student's success by distinguishing tasks that are neither easy nor too difficult. Also, to help the students to grow technically strong, thorough with the basic concepts in HTML, CSS and Java Script so that they will be bold enough in facing technical rounds of interview. The Prompt Crafting Competition was a highly engaging and educational event that highlighted the importance of prompt engineering in the AI era. Participants left with enhanced skills and newfound enthusiasm for exploring AI-driven creativity.



Club Activity - TechnoHub Club

The Department of Computer Science and Engineering, in collaboration with TechnoHub club conducted a technical seminar for Second year CSE TechnoHub club members on "IOT – Smart vehicle Mounted pothole Detection System" on 10th January 2025. The seminar aimed to introduce students to IoT-based smart solutions for real-world infrastructure challenges, particularly in road safety and maintenance. The seminar provided insights into how IoT technology can be leveraged for developing a smart pothole detection system, which helps in identifying and reporting road irregularities using sensor-based vehicle-mounted systems.

OUTCOME

- **☑** Enhanced students understanding of IoT applications in smart infrastructure.
- Encouraged students to explore real-time data collection, processing, and cloud-based reporting for IoT solutions.
- Inspired participants to develop their own projects related to smart transportation and urban management.









Club Activity - EDC Club

The Department of Computer Science and Engineering, in collaboration with ED Cell conducted a technical seminar for Second year CSE students on "Orientation and Awareness Program on MSME Schemes & Innovation in Entrepreneurship" on 9th January 2025 at 1.00 pm to 3.00 pm.

This informative session designed to educate entrepreneurs, startups, and small business owners about various Micro, Small, and Medium Enterprises (MSME) schemes and innovation-driven entrepreneurship opportunities.

Key Highlights of the Event:

Introduction to MSME Schemes, Entrepreneurial Innovation, Funding & Financial Assistance, Skill Development & Training, Networking & Collaboration, Q&A Session.

This program aims to empower entrepreneurs with knowledge and resources to scale their businesses and drive innovation in the MSME sector.







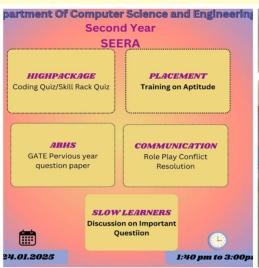


Student Employment Enhancement and Research Activities (SEERA)

As part of the SEERA Program, the Department of Computer Science and Engineering (CSE) organized a technical seminar on 3rd, 10th, 24th January for II Year Students.

The seminar focused on four key areas:

- **✓** Higher Package
- **✓** Placement
- **✓** ABHS (Related to Higher Studies)
- **✓** Communication
- **✓** Slow Learners













NGO Visit

On 25th January 2025, a team from 2nd year (Section B) Computer Science and Engineering students visited the Anjalammal Special School, an old age home, as part of an NGO outreach program. The visit aimed to provide emotional support, interact with the elderly residents, and contribute to their well-being. Upon arrival, we were warmly welcomed by the staff and residents, who shared their life experiences and personal stories. The day was filled with various activities, including storytelling sessions interactive games, all designed to bring joy and engagement. A small donation drive was conducted, where essentials such as food distribution. The visit provided a deep insight into the challenges faced by senior citizens and highlighted the need for companionship and emotional support in their lives. It was a heartwarming experience that reinforced our commitment to continued engagement with the elderly community. The day concluded with heartfelt conversations and expressions of gratitude, leaving both volunteers and residents with a sense of fulfilment and connection.



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING NGO VISIT

III CSE B





Amma appa old age home 70, Lakhsmi Nagar, Kundrathur, Chennai, Tamil Nadu 600069



09-01-2025



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING NGO VISIT

III CSE C





Mahimai Illam, Opposite CMC, Chengalpattu



09-01-2025



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING NGO VISIT

III CSE A





Annai Parvaiyatror Sangam , No. 1713, Mayilai Balaji Nagar, 3rd Zone, Pallikaranai, Chennai, Tamil Nadu 600100



04-01-2025



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING NGO VISIT

II CSE A





Amma appa old age home 70, Lakhsmi Nagar, Kundrathur, Chennai, Tamil Nadu 600069



25-01-2025

Industry Interaction by our Faculties

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



Industry Interaction by our Faculties











Industry Team

- 1. Mohammed Sohail, Head-Talent Acquisition and Global HR Operation, Zoho Corporation.
- 2. Uma Maheswari R, Director, Zoho Schools of Learning, Chennai.
- 3. Nirmal Kumar M, Regional Director- Sales & Marketing, Zoho Corporation.

POINTS DISCUSSED

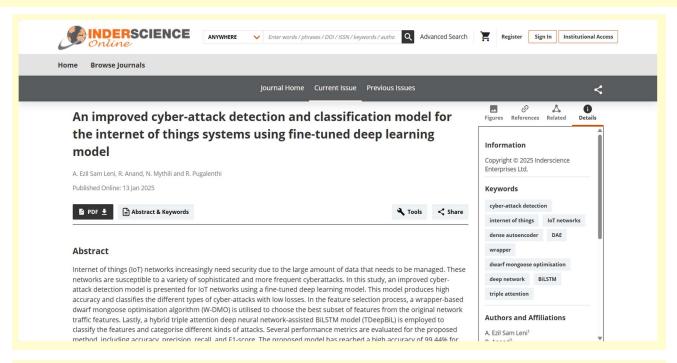
- 1. How to prepare for industry recruitment problemsolving questions.
- 2. How should teachers prepare for teaching coding?
- 3. Discuss the industry's expectations from students.
- 4. Discuss the question patterns of product-based companies.
- 5. At Zoho School, discussed the technologies to be taught and observed the environment for efficient working.
- 6. Discuss the syllabus framework in collaboration with industry needs.
- 7. The marketing sector also has a need for software engineers.
- 8. Discuss the availability of internship roles in product-based companies and the importance of internships.
- 9. Discuss Zoho products and collaborating industries, which have specific needs.
- 10. How should colleges prepare for industry expectations regarding the recruitment of software engineers, technical support, sales & marketing, patent publishing, and research?

29.01.2025

Faculties
Dr. L. Sai Ramesh, M. E., Ph. D.
Professor,
Mr. P. Mithun, M. Tech., (Ph. D.)
Assistant Professor,
Dept. of CSE

Faculty Achievements - SCIE Journal Publication

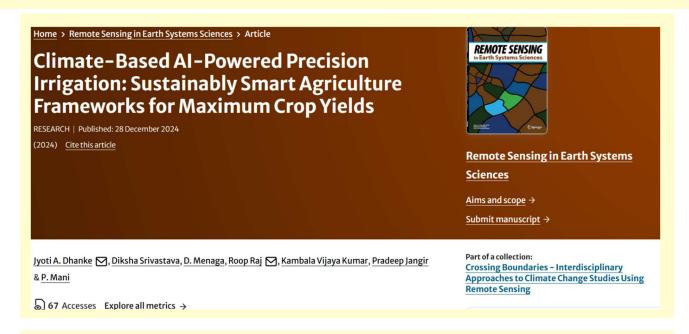
- ☑ Dr. N. Mythili published a paper titled "An improved cyber-attack detection and classification model for the internet of things systems using fine-tuned deep learning model", in the International Journal of Sensor Networks, January 2025.
- ☑ Dr. L. SaiRamesh published a paper titled Intelligent Intrusion Detection and Prevention System for IoT Using Game Theoretic Approach", in the International Journal of Wireless Personal Communications, January 2025.





Faculty Achievements - SCOPUS Journal Publication

- Dr. D.Menaga published a paper titled " Climate-Based Al-Powered Precision Irrigation: Sustainably Smart Agriculture Frameworks for Maximum Crop Yields", in the International Journal of Remote Sensing in Earth Systems Sciences, January 2025.
- ✓ Ms. V.C.Ranganayaki published a paper titled "Secure Routing E-voting Protocol based on Wireless Sensor Network Platform with Block chain", in the International JOurnal for Electrical and Electronics Research, January 2025.





International Journal of **Electrical and Electronics Research (IJEER)** Research Article | Volume 12, Issue 4 | Pages 1381-1390 | e-ISSN: 2347-470X

Secure Routing E-voting Protocol based on Wireless Sensor **Network Platform with Block chain**

Mohanaprakash T A¹, Ranganayaki.V.C², M.S Minu^{3*}, Durga Devi A⁴, and Cinthuja K⁵

Department of CSE, School of Engineering and Technology, C M R University, Bangalore, Karnataka, India;

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⁵Department of CSE, Panimalar Engineering College, Poonamallee, Chennai, Tamil Nadu, India; cinthu16.k@gmail.com

ABSTRACT- Many have long aimed to create a safe electronic voting system that maintains the confidentiality and integrity of traditional voting methods while using the convenience and openness of modern technology. Ballot paper or electronic voting machines are the current voting schemes in every nation, and democratic voting is a significant event in every country. Problems with these procedures abound, including lack of openness, poor voter turnout, vote manipulation, mistrust of the election body, forgery of unique identification (voter ID card), delays in disseminating results, and, most importantly, security breaches. Prioritizing the security of digital voting is of utmost importance when contemplating implementing a digital voting system. The article assesses the objective of building a blockchain-based e-voting system [BC-E-VOT] that uses digital voting technology. Electronic voting methods that leverage the distributed ledger attract much attention because they can make digital voting more transparent, secure, and honest. As shown in this research, a successful strategy for electronic voting may be achieved by using Blockchain's cryptographic underpinnings and transparency. Due to its complete transparency, the suggested approach satisfies the essential criteria for electronic voting systems. Since Blockchain employs a decentralized mechanism for data storage rather than storing all of the data in one central place, it becomes challenging to tamper with the data when utilizing this technology to build a decentralized application. By creating a decentralized system using the WSN platform, a third party is no longer needed to oversee the election's access control. This article provides a system for electronic voting that guarantees privacy, trustworthiness, and security. The suggested approach is practical and secure, according to the findings.

Faculty Achievements - SCOPUS indexed Conference

- Dr. L. Sairamesh Present a titled "Real time crop analysis with enhanced image classification using deep learning and fuzzy logic techniques ", in the 2nd International Conference on Computer Vision and Internet of Things on December 2024, indexed in IEEE on January 2025.
- Ms. V.C.Ranganayaki Present a titled "Optuna-Optimized Machine Learning Technique for Accurate Diabetes Prediction and Classification", 4th International Conference on Sustainable Expert Systems, ICSES 2024 on October 2024, indexed in IEEE on January 2025.
- Ms. K.Jaspin Present a titled "IoT-Based Crop Recommendation System Using SVM and Decision Tree Algorithm", in International Conference on Intelligent Computing, Smart Communication and Network Technologies on May 2024, indexed in IEEE on January 2025.
- Mr. M.Krishnaraj Present a titled "Deep Learning Breakthroughs in Leukemia Diagnosis: A Review of White Blood Cell Image Analysis", 4th International Conference on Sustainable Expert Systems, ICSES 2024 on October 2024, indexed in IEEE on January 2025.
- Mrs S M Keerthana Present a titled" Probabilistic and Interpretable Approach for Malaria Transmission Forecasting via ARIMA", in the International Conference on Communication, Computing and Signal Processing, IICCCS 2024, indexed in IEEE on January 2025.



Faculty Achievements - Patent Publication

- Mr M.Krishnaraj Kumar has published a patent titled "CYBERCRIME DETECTION AND PREVENTION USING AUTOMATED MACHINE LEARNING IN IOT FORENSICS" with application number 202411094352 on December 2024.
- Ms.K.Sherin has published a patent titled "ENHANCING TEACHING AND LEARNING EFFECTIVENESS THROUGH MACHINE LEARNING DRIVEN PEDAGOGY" with application number 202441101018 on January 2024.
- Mrs. K.Jaspin has published a patent titled "A MACHINE LEARNING-DRIVEN APPROACH TO PANCHAKARMA AND AYURVEDIC THERAPIES FOR HERBAL FORMULATIONS AND CANCER MANAGEMENT" with application number 202411103004 A on January 2024.
- ☑ Dr.C.A.Subasini has published a patent titled "LOW-POWER INTERNET OF THINGS (IOT) CHIP FOR ENHANCED ENERGY EFFICIENCY AND CONNECTIVITY" with application number 202441104202 on January 2024.







Application Details	
APPLICATION NUMBER	202441101018
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	19/12/2024
APPLICANT NAME	1. T Sunandha Tulasi 2. Dr K Sailaja Kumar 3. Dr Devadutta Indoria 4. Suchana Roy 5. Dr Brajesh Kumar 6. Dr I. D. Soubache 7. Sherin K 8. K. Swapnika 9. Dr.R.Sandrilla 10. Dr Sarah DSouza 11. Girija Paranjpe 12. Viral Ahire
TITLE OF INVENTION	ENHANCING TEACHING AND LEARNING EFFECTIVENESS THROUGH MACHINE LEARNING-DRIVEN PEDAGOGY
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	patent.vaagaiip@gmail.com

COMPUTER SCIENCE

Efficiency and Connectivity

4 . J. Vinothini5 . Dr. C. A. Subasini6 . Dr. N. Kumaran7 . Dr. Sasikumar Gurumoorthy

8. P. Manimekala

Low-Power Internet of Things (IoT) Chip for Enhanced Energy

TITLE OF INVENTION

FIELD OF INVENTION

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



Congratulations

To our Cognizant GenC Placed Students

BATCH: 2021-2025



HAINS IMMANUEL VAIZ



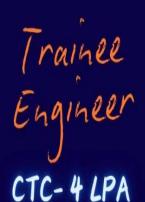
JEFFREY SAHAYA DANIEL



JENEFA ANGELIN J



JEREMY JONATHAN RAJ M





MEPHI ALBEN A



RAMITH JAGATHESE J



SWETHAS

Student Achievements

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CONGRATULATIONS

To our Newgen Placed Student





Mr. Yuvaraj S

Salary Package- 4.25 Lakhs

BATCH: 2021-2025

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CONGRATULATIONS



To our Cprime Placed Student



cprime

Ms. Janani Priya S

Trainee Software Engineer Salary Package- 6.24 LPA

BATCH: 2021-2025



Student Achievements

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CONGRATULATIONS

To our BNP Paribas Placed Student



Ms. Mary Dhivya J

Six months Internship

Stipend Rs. 50000/ Month

BNP PARIBAS

BATCH: 2021-2025

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CONGRATULATIONS

To our

Wexa Placed Student





Mr. Vijay S

Python Intern - 6 Months

Stipend
Rs. 10000/
Month

BATCH: 2021-2025