

St. 10SEPH'S INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)



OMR, CHENNAI - 119

Approved by AICTE, New Delhi and Permanently Affiliated to Anna University









DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING











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NEXTGEN NEWS

October 2024



St. JOSEPH'S

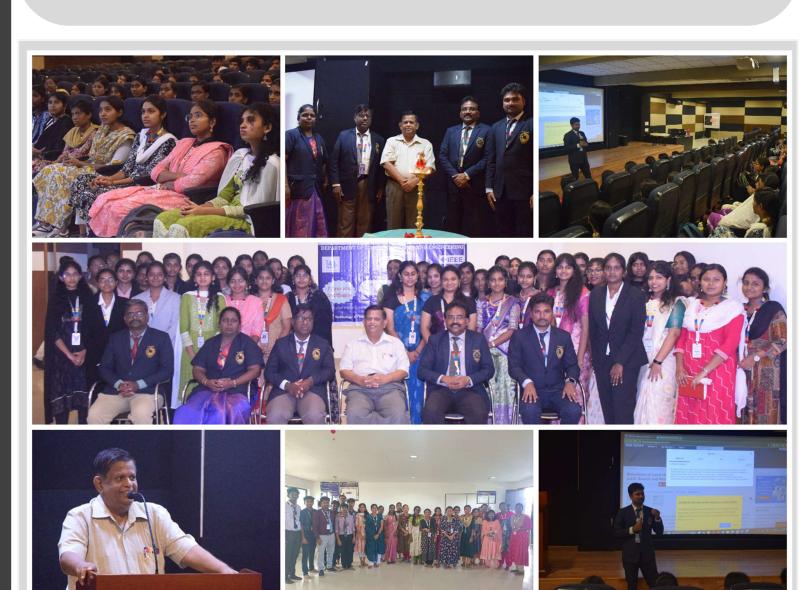






Professional Chapter Activity - IEEE Computer society

The Department of Computer Science and Engineering successfully completed IEEE Day Event on the 9th and 10th October 2024. The event featured a Workshop on Idea Generation and the much-anticipated Project Expo '24, both of which were enthusiastically attended by 1st and 2nd-year CSE students. The workshop provided valuable insights into fostering creativity and innovative thinking. Mr. Mohan HR, the esteemed IEEE Ambassador and Chair of Events at IEEE CS Madras, was the chief guest and shared his expertise on project development and idea incubation. Day 1 and day 2 was a resounding success, with students actively participating in discussions and project presentations, setting a strong tone for the following day of activities.



Alumni Talk

The Department of Computer Science & Engineering organized an engaging Alumni Talk on "Dream it, build it: Secrets to transforming ideas into Reality" on 4th, October 2024. The event featured Ms. kanmani, a managing Director kanmani Pre-school, Navalur and an esteemed alumna from the Batch of 2020-2024. Held in AV Hall-1 from 8:15 to 9:30 AM, the talk was specifically aimed at II-year students, offering them a deep dive into the practical aspects of entrepreneurship Ms. kanmani shared her entrepreneur journey, her experiences, and valuable insights, providing students become an entrepreneur. The session was well-attended and highly appreciated by students, who gained a better perspective on how to align their academic learning towards to become entrepreneur.



Parent-Teacher Meeting

A Parent-Teacher Meeting was held at the Department of Computer Science and Engineering, St. Joseph's Institute of Technology on 14.10.2024. The meeting provided an opportunity for faculty and parents to discuss students' academic progress, college policies, and development plans aimed at enhancing student learning. A total of 127 students parents attended the meeting. Parents traveled from various regions across Tamil Nadu, including Thirunelveli, Nagerkovil, and Karaikudi to participate in this interactive session. The Parent-Teacher Meeting was successful, with parents expressing appreciation for the department's transparency and dedication to student welfare. The interaction fostered a stronger connection between parents and faculty, reinforcing a shared commitment to student excellence and growth.









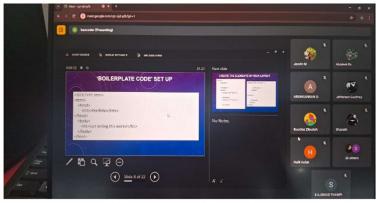
Workshop

The Department of Computer Science and Engineering organized three technical workshops for second-year students: Machine Learning, Web Development, and Data Science. These workshops were held between October 14th, 18th, and 19th, 2024, aimed to provide participants with a solid foundation in each respective domain. The workshops on Machine Learning, Web Development, and Data Science were successful in providing students with valuable knowledge and practical skills in their respective fields. Each workshop fostered a collaborative and engaging environment, allowing students to enhance their technical abilities.

















PATTAYAM - Inauguration of (IPR) Cell

The Department of Computer Science and Engineering successfully inaugurated the Intellectual Property Rights (IPR) Cell, named PATTAYAM, under the tagline My Idea, My Property on October 29th, 2024, at 9:30 AM held in AV Hall 1 in the Admin Block. This inauguration signifies the institute's commitment to fostering awareness and protection of intellectual property rights among its students and faculty. We were thrilled to kick off our Intellectual Property Rights (IPR) Cell, PATTAYAM, with two insightful sessions designed to empower and educate our academic community. These sessions were filled with valuable insights, sparking curiosity and emphasizing the importance of protecting innovations. Through PATTAYAM, we aim to foster a deep-rooted understanding of intellectual property rights, encouraging our students and faculty to secure and leverage their creative ideas.



Club Activity - Women Coding Club

St. Joseph's Institute of Technology OMR, Chennai, through its Department of Computer Science and Engineering, in collaboration with the ITASHA - Women Coding Club was organized a Workshop on Full Stack Development. The session, scheduled on Friday, 18th October 2024, conducted by Mr. R Ranjithkumar, a Technical Lead in Full Stack Development at Tata Consultancy Services. The workshop was conducted in CSE Lab 3 from 9:40 AM to 11:00 AM and provided valuable insights into full stack development for the attendees. This initiative reflects the institute's dedication to empowering students with technical skills and fostering hands-on learning experiences.













Club Activity - Coding Club

Java Programming Coding Competition organized by the Coding Club of the Department of Computer Science and Engineering. The competition was scheduled for October 28th, 2024, and will take place from 1:00 PM to 3:00 PM in the CSE Smart Room. This event provided a platform for students to showcase their Java programming skills and engage in a competitive

coding environment.

Winner list:

- 1. Nithish M and Manikandan N
- 2. Ashwin S.I and Abdul S
- 3. Jebin J.G and Praveen R





Club Activity - Machine Learning Club

The Department of Computer Science and Engineering, in collaboration with the Machine Learning Club was hosted a hands-on session titled "Basics of Machine Learning" Scheduled on October 29th, 2024, from 10:00 AM to 11:30 AM,held in the Smart Classroom. The workshop handled by T. Sindhu, an Assistant Professor at St. Joseph's Institute of Technology. The primary objective was to introduce club members to fundamental concepts and techniques in machine learning, fostering a hands-on understanding of various ML models and their applications. " The event "Basics of Machine Learning" was a resounding success, offering participants a hands-on experience that bridged theoretical knowledge with practical application. It not only enhanced their understanding of linear regression but also fostered collaboration and critical thinking within the Machine Learning Club.











MACHINE LEARNING CLUB
Presents

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEE



HANDS ON SESSION



BASICS OF MACHINE LEARNING

TOPIC:



T.Sindhu Assistant professor St.Joseph's Institute of

Faculty Achievements – IEI Rewards



Dr . J.Dafni Rose, has received best faculty advisor award from The Institution of Engineers (India) Kancheepuram Local Center for the year 2023-2024 .

The Department of Computer Science and Engineering has won best student chapter for the year 2023-2024 in the Institution of Engineers (India) Kancheepuram Local Center



Faculty Achievements - SCIE/WOS Journal Publication

Dr. A. Deepak Kumar published a paper titled "A Blockchain-powered Malicious Node Detection in Internet of Autonomous Vehicles", in the IEEE Transactions on Intelligent Transportation Systems, October 2024.

Faculty Achievements – SCOPUS Journal Publication

- 1. Dr. A. Deepak Kumar published a paper titled "Internet of Things Assisted Sleep Quality Recognition using Hunger Games Search Optimization with Deep Learning on Smart Healthcare Systems", in the Journal of Intelligent Systems and Internet of Things, October 2024.
- 2. Mr. S. Janagiraman published a paper titled "Automated Detection of Anomalous Holes in Fuel Injector Nozzles Using High-Definition Microphones (DH-FINM) and Machine Learning Algorithms", in the International Journal of Electronics and Communication Engineering, October 2024.

Faculty Achievements – SCOPUS indexed Conference

Dr.D.Menaga published a paper titled "Global initiatives and collaborations in AI for Alzheimer's disease", Book Chapter, Source Title: Al-Driven Alzheimer's Disease Detection and Prediction, on October 2024.

This article has been accepted for inclusion in a future issue of this journal. Content is final as presented, with the exception of pagination

IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS

A Blockchain-Powered Malicious Node Detection in Internet of Autonomous Vehicles

Sahaya Beni Prathiba[®], *Member, IEEE*, Pranav Murali[®], Rajalakshmi Shenbaga Moorthy, Deepak Kumar Anandhan[®], Arikumar K. Selvaraj[®], and Joel J. P. C. Rodrigues[®], *Fellow, IEEE*

Abstract—The proliferation of Autonomous Vehicles (AVs) in recent times has opened up new possibilities for effective and secure transportation. However, with the increasing adoption of AVs. guaranteeing the accuracy and security of their esnory systems is becoming paramount. Specifically, the vulnerability of these systems to malware and sensor faults can pose significant risks to the dependable and secure operation of the vehicle. To identify and combat these issues we propose a streambased Blockchain-powered Malicious Activity to the AV operating as a node on the Internet of Autonomous Vehicles (AVs) network, wherein the existing solutions are at lower of the AV operating as a node on the Internet of Autonomous Vehicles (IoAV) network, wherein the existing solutions are at lower of the AV operating as a node on the Internet of Autonomous Vehicles (IoAV) network, wherein the existing solutions are at lower of the AV operating as a node on the Internet of Autonomous Computing this is brings the malware of the Vehicle (IoAV) network, wherein the existing solutions are at lower of the AV operating as a node on the Internet of Autonomous Vehicles (AVs) and observed in recent times, primarily driven by mainties aimed at enhancing driver comfort and overall safety of the vehicle. Even cars with no AV features now have several observed in the case of AVs as the possible impacts of framsomware on connected vehicles [2] are life-threatening. Since the computing unit does all computation related to the riving and safety features, the beach of this computing unit beach of this computing unit beach of the computing unit beach of the computing unit does all computation related to the riving and safety features, the each of this computing unit beach of the computing unit does all computation related to the riving and safety features, the each of this computing unit is a hazard to life and property. This issue is paramount and use the handled with a resilient at readors of the AV where are the computing unit does all comput capabilities of BMND are also better regarding security and latency concerning proposed vanilla blockchain methods.

most significant security concerns related to AVs though they currently use data security standards like IEEE 802.11p (Wire-less Access in Vehicular Environments) and Cellular-V2X

Automated Detection of Anomalous Holes in Fuel Injector Nozzles Using High-Definition Microphones (DH-FINM) and Machine Learning Algorithms



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Year of Publication: 2024

Authors: T. A. Mohanaprakash, D. Siva, J. Jegan, S. Janagiraman, M. Therasa



How to Cite?

T. A. Mohanaprakash, D. Siva, J. Jegan, S. Janagiraman, M. Therasa, "Automated Detection of Anomalous Holes in Fuel Injector Nozzles Using High-Definition Microphones (DH-FINM) and Machine Learning Algorithms," SSRG International Journal of Electronics and Communication Engineering, vol. 11, no. 9, pp. 149-162, 2024. Crossref, https://doi.org/10.14445/23488549/IJECE-V11I9P114



Faculty Achievements – Patent Publication

- 1. Dr.J.Dafni Rose has published a patent titled "Eco Concious Recyclable Areca leaf plates and Packaging for Food serving optimized with Machine Learning" with application number 202411051101 on 4th October 2024.
- 2. Dr. C.A Subasini has published a patent titled "Role of Radio Frequency Identification (RFID) In Warehouse and Logistics Management System Using Machine Learning Algorithm" with application number 202441073897on 4th October 2024.
- 3. Dr. A. Deepak Kumar has published a patent titled "A Hybrid AI and Machine Learning Approach for Accurate Skin Cancer Detection and Classification" with application number 202411071439 on 4th October 2024.
- 4. Mrs. Shanker Shalini has published a patent titled "Optimized Embedded Processor for Real-Time Data Acquisition in Sensor Networks" with application number 202441074462 on 4^h October 2024.
- 5. Mrs. E. Ajitha has published a patent titled "IOT and Machine Learning Technologies for Effective Environmental Pollution Management" with application number 202441070444 on 4th October 2024.

Faculty Achievements - FDP (Physical Mode)

- 1. Dr.V.Sabaresan has participated 6 days Offline FDP on "Immersive Technology Exploring Augmented Reality Virtual Reality", Organized by Panimalar Engineering College, Chennai on 21-10-2024 to 26-10-2024.
- 2. Mr Muthukumar has participated 6 days Offline FDP on "Immersive Technology Exploring Augmented Reality Virtual Reality", Organized by Panimalar Engineering College, Chennai on 21-10-2024 to 26-10-2024.
- 3. Mr Sundarababu Maddu has participated 6 days Offline FDP on "Immersive Technology Exploring Augmented Reality Virtual Reality", Organized by Panimalar Engineering College, Chennai on 21-10-2024 to 26-10-2024.

Faculty Achievements – NPTEL Certification

| S.NO | Faculty Name | Course Name | Grade |
|------|------------------------|----------------------------------|---------------------------|
| 1 | Dr.J.Dafni Rose | Design thinking – A Primer | Elite Sliver |
| 2 | Dr.L.SaiRamesh | Design thinking – A Primer | Elite |
| 3 | Mrs.M.Ramya | Introduction to machine Learning | Successfully completed |
| 4 | Mr.Sundarababu Maddu | Python for Data Science | Elite |
| 5 | Mr. S.Muthukumar | Introduction to machine Learning | Elite |
| 6 | Mrs. S.M.Keerthana | Introduction to machine Learning | Elite Sliver + 5 % Topper |
| 7 | Mr. S. Janagiraman | Demystifying Networking | Successfully completed |
| 8 | Mrs. M. V. Ezhil Dyana | Introduction to machine Learning | Elite |
| 9 | Mr. S. Muthukumar | Python for Data Science | Elite |



Student Achievements



We Make You Shine

St. JOSEPH'S INSTITUTE OF TECHNOLOGY



St. JOSEPH'S GROUP OF INSTITUTIONS

OMR, CHENNAI - 119

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Department of Computer Science and Engineering Congratulations

The Management, Principal, and Staff members congratulate the following students who won first prize in IEEE WIE INTERNATIONAL LEADERSHIP SUMMIT, an international level idea presentation event organized by ANNA UNIVERSITY on 5th October, 2024.

| Team Name | Students Name | Year | Position | Prize Amount |
|-----------|---|------|----------|---------------------|
| VOICE UP | VASITHRA D SETHULAKSHMANAN SP SANJITH KUMAR M | IV | I | Rs. 2,500 |



2131024 Chairman



Student Achievements



Mr Kalimuthu, IV year has got best student award from The Institution of Engineers (India)
Kancheepuram Local Center for the year 2023-2024.



Student Achievements





Congratulates **MASTECH INFOTRELLIS**

PLACED STUDENTS



ANU VARSHINI S



NANDHANA V



KIRTHIDEVI S



ZAIBA THABASSUM KALEEM



BATCH: 2021-25

CTC-6.5 LPA

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Congratulates

Infosys Placed Students



AKSHAY A



ANNLYN BRIGHT



ASHIBHA S



BENNY ISRAEL J



POOJITHA BOYIDI



DURAIMADHAVAN KR



P. EUGINE CARMEL



HARIS JAI SOORYA V



JANALYN MAROULA L



JESWI NIHIDHA E



MOHAMMED SHAHID



MUNTAZIR FAYAZ WANI



MUTHUKUMARAN S RAMITH JAGATHESE J





RAZLINA JOAN SJ



SUTHARSHANAGAYATHRI



Batch 2021-2025

CTC-3.6 LPA

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Congratulates

Cognizant Digital Nurture 3.0
Placed Students



ANNLYN BRIGHT



BENNY ISRAEL J



CHRISTINA MICHELLE RAYAN



HEMALATHA J



LEMI DEBORAH SOLOMON SURESH



PRIYANKA S



SAHITHYA SHRE H



SETHULAKSHMANAN SP



SIVAGANESH N



SRINITHI B



SWETHAP



VIGRAM K M



YOGESHWARAN S

CTC-4 to 7 LPA

Batch 2021-2025

