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# AIDatum

MONTHLY NEWSLETTER

DEPARTMENT OF ARTIFICIAL  
INTELLIGENCE & DATA SCIENCE



# St. JOSEPH'S



COLLEGE OF ENGINEERING  
(An Autonomous Institution)  
St. JOSEPH'S GROUP OF INSTITUTIONS  
OMR, CHENNAI - 119



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## ABOUT OUR COLLEGE

- St. Joseph's College of Engineering is having 30 years of successful academic reputation offering 11 UG programs and 3 PG programs with a current intake of more than 1750 students per year.
- Since inception, our Institution is consistently placed among the Top 10 institutions in terms of number of ranks. So far 1553 ranks including 57 Gold medals and 56 Silver medals have been secured by students. The college has been in 1st Place for 4 times in terms of fetching highest numbers of Anna University ranks.
- The College is continuously being ranked by in National Institutional Ranking Framework (NIRF) since 2017 and ranked in '201 band' at National Institutional Ranking Framework under Innovation category (NIRF- Innovation 2025).
- Accredited with A+ grade by securing 3.46 on a scale of 4.00 by National Assessment and Accreditation Council (NAAC).
- 10 departments have been recognized as 'Research Centers' by Anna University to pursue Ph.D. and also recognized as 'Scientific and Industrial Research Organization' (SIRO) since 2014 by DSIR, Government of India.
- Our institution has received 2nd Rank in Performers band of NSIIR 2023 (National Sustainability Impact Institutions Ranking) organized by NITI AAYOG & ATAL Innovation Mission for our initiatives in support United Nation's Sustainable Development Goals.
- Our research publications have resulted in fetching Scopus h-index 67 and Web of Science h-index 59 for our institution.
- Our institution is the recognized 'Linguaskill Centre' for Cambridge English Assessment in India & one among 25 South Asia Best Preparatory Centers for Business English Certification (BEC).
- So far 57 Sponsored Research Projects to the value of Rs. 5.04 Crores and 48 Faculty Training Programs with a grant of Rs.71.51 lakhs and FIST grant of Rs.71 Lakhs were received from AICTE, NRB, DST, SERB, DBT, NROMS, ISRO, TNSCST & Anna University etc.
- INAE Innovative Project Awards (21 Projects) were bagged by our students for their innovative projects.



## ABOUT OUR COLLEGE

- Our Institution is selected under the National level "Unnat Bharath Abyan Programme" by MHRD Government of India and Skill and Personality Development program Centre (SPDP) for SC/ST by AICTE, and received a grant of Rs.17 lakhs grant under PMKVY program.
- Won First AICTE-ECI Chhatra Vishwakarma award in 2017 as a Best Institute at National level.
- Won 1st position in "Utkrisht Sansthan Vishwakarma Award", 2020 by AICTE in association with Ministry of Human Resource and Development (MHRD).
- Secured AICTE-Lilavati Awards in 2021 and 2022: Winner under the stream of Women Security, Runner under Hygiene and Sanitation themes in 2021 and Runner in Women Empowerment 2022.
- College has secured star rating for the activities carried out in the campus by Institution's Innovation Council (IC). In 2023 the college has received 4 project grants worth of Rs.56 Lakhs for Business incubation by MSME, MOE, & Government of India
- Consistently our students are securing winning positions in National Level Innovative idea competitions such as AICTE Smart India Hackathon in Hardware and software, Toycathon, Mapathon etc.
- We have Secured 58th Rank by Internshala Annual Ranking 2023 and our Institution is consistently awarded "National Employability Award" every year since 2017 by Aspiring Minds.
- Our college is recognized as India's Best Engineering Institute 2023 with AAAA rating by Careers 360 organization.
- Our Institution is listed in India Book of Records for hosting National Level FDP on Cloud Infrastructure organized by BRAIN O VISION, and supported by AICTE, Ministry of Education, Govt. of India.



# Student Achievements

## Vania Irene A

Placement @ AVASOFT

Batch: 2022 – 2026

Vania Irene A has been placed with **AVASOFT**, a leading technology company. As part of this opportunity, she will receive a **stipend of ₹10,000** per month during her internship phase, followed by a **CTC of 6 LPA** on successful completion. This accomplishment highlights her dedication, skills, and hard work in the field of Artificial Intelligence and Data Science, and marks a proud achievement for the department and the institution.

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**32** Years of Excellence

**A+** NAAC

**NBA** NATIONAL BOARD OF ACCREDITATION

**nirf**

**INSTITUTION'S INNOVATION COUNCIL**

**DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE**

*Congratulations*  
**PLACEMENT OFFER**

**CTC : 6 LPA**

**AVASOFT**  
SHAPING NEXT GEN

**Stipend**  
Rs.10,000 / month

**VANIA IRENE A**  
**TRAINEE ENGINEER**  
BATCH : 2022 - 2026

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**Disciplined Toppers**

# Student Achievements

## Shrei Nithi R J

Placement @ Expeditors

Batch: 2022 – 2026

We are proud to announce that **Shrei Nithi R J** from the Department of Artificial Intelligence and Data Science has been placed with **Expeditors**, a leading global company. She has secured an attractive **CTC of ₹6.21 LPA**, which stands as a recognition of her technical skills and professional capabilities. This achievement is the result of her perseverance, dedication, and passion for learning, which have been consistently reflected throughout her academic journey. The institution congratulates Shrei Nithi R J on this remarkable milestone and wishes her continued success in all her future endeavors.

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NBA NATIONAL BOARD OF ACCREDITATION

nirf NATIONAL INSTITUTE RANKING FRAMEWORK

INSTITUTION'S ACCREDITATION COUNCIL

**DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE**

*Congrats!* **PLACEMENT OFFER**

**Expeditors®**

**CTC : 6.21 LPA**

**SHREI NITHI R J** **BATCH : 2022 - 2026**

Best Wishes!!

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# Student Achievements

## Ashwin Jai R A

Internship @ Alphawave

Batch: 2022 – 2026

Ashwin Jai R A has secured an internship with **Alphawave** as a **Security Analyst**. As part of this opportunity, he will receive a **stipend of ₹25,000** per month for a duration of 6 months. This accomplishment reflects his exceptional skills and commitment in the field of Artificial Intelligence and Data Science, earning recognition for the department and the institution.

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 OF EDUCATION  
 INSTITUTION'S INNOVATION  
 COUNCIL

**DEPARTMENT OF ARTIFICIAL INTELLIGENCE  
 &  
 DATA SCIENCE**

*Congratulations*  
**INTERN OFFER**

**W**  
**ALPHAWAVE**

**ASHWIN JAI R A**  
 BATCH : 2022 - 2026

**Stipend**  
**Rs. 25,000 / Month**  
**Duration: 6 months**

**Role:**  
**Security Analyst**

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# Student Achievements

## Maria Lijoevin J

Internship @ Zoho

Batch: 2022 – 2026

Maria Lijoevin J has successfully secured an **internship with Zoho**, one of India's most reputed technology companies, for the role of Project Trainee. As part of this opportunity, he will be receiving a **stipend of ₹20,000** per month, which reflects the value placed on his skills and potential. This accomplishment underlines his strong technical abilities and perseverance, serving as a source of pride for the department and the institution.

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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE**

**CONGRATS!!**

**INTERN OFFER**

Z O H O

**Stipend**  
Rs.20,000 / month

**Role:**  
Project Trainee  
Batch : 2022 - 2026

**Maria Lijoevin J**

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# Student Achievements

## Mahatishri J

Internship @ CES Information Technologies PVT LTD

Batch: 2022 – 2026

Mahatishri J has secured an **internship with CES Information Technologies PVT LTD**, a reputed technology firm. As part of this internship, she will receive a **stipend of ₹15,000** per month for a duration of 4 months. This opportunity highlights her technical skills and commitment to excellence in the field of Artificial Intelligence and Data Science. We congratulate her on this achievement and wish her continued success in her future endeavors.

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DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE

*Congratulations*

**Intern Offer @** **CES**  
CES Information Technologies PVT LTD

*Best Wishes!!!*

**Mahatishri J**

Batch : 2022 - 2026

**Rs. 15,000 / Month**  
**Duration : 4 Months**

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# Student Achievements

## Rajashree N

Rajashree N has successfully attained the **Microsoft Power BI Data Analyst Associate Certification**, demonstrating her expertise in data analysis and visualization using Microsoft Power BI. This achievement highlights her dedication, technical skills, and commitment to excellence in the field of Artificial Intelligence and Data Science. This success demonstrates his technical proficiency and dedication, adding great value to the reputation of the department and the institution.

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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE**

*Congratulations*

Microsoft CERTIFIED  
**ASSOCIATE**  
★★

**RAJASHREE N**  
BATCH : 2022 - 2026

On the outstanding achievement of attaining the **Microsoft PowerBI Data Analyst Associate Certification.**

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# Student Achievements

Jeevitha M, from the Department of AI & Data Science (2021-2025), has made our college proud. She has been awarded grants totaling Rs. 12 Lakhs from AWS. This includes a full sponsorship to attend AWS re: Invent in Las Vegas from December 1-5. AWS re: Invent is the flagship global event for cloud innovation. Jeevitha is an AWS Community Builder and a former AWS Cloud Captain. Her achievement highlights the college's commitment to fostering innovation. St. Joseph's College of Engineering, an autonomous institution on OMR, Chennai, continues to empower its students. This global recognition underscores the quality of its AI & Data Science programs. The institution is proud to be the choice of disciplined toppers. Congratulations to Jeevitha for this outstanding accomplishment!

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DATA SCIENCE**

**INNOVATION REWARDED- OUR STUDENT ON THE GLOBAL FORUM**



**JEEVITHA M**  
Dept of ADS - Batch(2021 - 2025)  
Alumna, AWS - Community Builder  
Former AWS - Cloud Captain

RS. 12 LAKH

GRANTS RECEIVED FROM



FULL SPONSORSHIP  
*for attending*

AWS  
re: **Invent**

1-5 DECEMBER LAS VEGAS

AWS's FLAGSHIP EVENT



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# Student Achievements

Ashwin Jai R.A has successfully earned the **eJPT (eLearnSecurity Junior Penetration Tester) certification**, a globally recognized credential in cybersecurity. This certification demonstrates his ability to perform **penetration testing** and vulnerability assessments in real-world environments. The eJPT program, **offered by INE Security**, tests practical skills in network penetration, web application exploitation, and security assessment techniques. Ashwin displayed proficiency in reconnaissance, exploitation, and post-exploitation methodologies required to assess system security. The certification validates his knowledge of ethical hacking principles and his ability to apply them professionally. Completing this certification highlights his dedication to strengthening his expertise in cybersecurity. It also equips him with valuable hands-on skills that are in high demand in the IT security industry. His achievement is a testament to his hard work and technical aptitude. This accomplishment brings pride to his institution and motivates peers to pursue industry-recognized certifications.



# Student Achievements

**Dharunika B** has demonstrated exceptional dedication to professional development by successfully earning **two prestigious ServiceNow certifications**. She first achieved the Certified **System Administrator credential** on March 10, 2025, with certification number 26881708. Building on this foundational knowledge, she further advanced her expertise by attaining the Certified **Application Developer certification** on August 14, 2025, under certification number 27377824. Both certifications were officially **issued by ServiceNow's Global Learning and Development division**, bearing the signature of Senior Vice President Jayney Howson. These accomplishments validate her comprehensive skills in managing and developing on the powerful ServiceNow platform. Earning these credentials signifies a high level of proficiency in a leading digital workflow company. This sequential achievement highlights her commitment to continuous learning and professional growth. Her credentials are a testament to her technical capabilities in application development and system administration. The global recognition of these certifications underscores her readiness to contribute to the IT industry. The world truly works with ServiceNow, and Dharunika B is now a certified professional capable of driving that work forward.



# Student Achievement in HACKATHON

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DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE  
**Congratulations**

**CASH PRIZE Rs.3000**

IV ADS Students on securing Second Prize in the National Level TECHNOATHON conducted by Department of Electronics and Instrumentation Engineering, St. Joseph's College of Engineering on 18.09.2025 & 19.09.2025.

TEAM - DREAM CODERS  
 Sankari K, Sairam D R, Rehan C Bejoy, Kevin J C, Priyadharshini R, Sri Akshita Devan

The Choice of Disciplined Toppers

The Department of Artificial Intelligence and Data Science of St. Joseph's College of Engineering proudly congratulates its **IV year students** for their outstanding achievement. **Team Dream Coders** secured **Second Prize** in the **National Level TECHNOATHON**, a prestigious event conducted by the Department of Electronics and Instrumentation Engineering. The competition was held on 18th and 19th September 2025 at St. Joseph's College of Engineering, OMR, Chennai. The team showcased their innovative skills and problem-solving abilities, competing against participants from various institutions. Their remarkable effort earned them a **cash prize of Rs. 3000**, bringing laurels to the department. The winning team members were **Sankari K, Sairam D R, Rehan C Bejoy, Kevin J C, Priyadharshini R, and Sri Akshita Devan**. Faculty members and peers applauded the students for their dedication and teamwork. This achievement highlights the department's commitment to nurturing innovation and excellence among its students.

# Student Achievement in HACKATHON 2.0

The Smart India Hackathon 2025 – **Make-A-Thon 2.0** was a proud moment for the Department of Artificial Intelligence and Data Science at St. Joseph's College of Engineering. The team "**Sentinels**" from the **Software Domain** secured the Winner's title and was awarded a **cash prize of ₹5000**. The talented **third-year students of ADS** who formed the winning team were **Ajaysrinivasan, Abhinav, Brayon Moses, Nithyasri, Prijitha, and Eric Jeevan**. Their innovative contributions and teamwork showcased their strong problem-solving skills and creativity, bringing laurels to the department and the institution. This achievement highlights the students' dedication to applying classroom knowledge to real-world challenges. It also reflects the college's continuous encouragement and support in nurturing young innovators to excel at national-level platforms.



## Inspiring Leadership: Google Student Ambassadors

**Suganthan S** and **Sri Vardhini S R**, students of the Department of Artificial Intelligence and Data Science, Batch 2024 – 2028, have achieved a remarkable milestone. They have been selected as **Google Student Ambassadors**, a prestigious recognition offered by Google. This achievement highlights their leadership qualities and passion for technology. As Google Student Ambassadors, they will act as a bridge between Google and their campus community. They will be responsible for sharing knowledge, organizing events, and inspiring fellow students. This recognition provides them with opportunities to enhance their technical and professional skills. It also enables them to gain hands-on experience with Google technologies and tools. Their achievement serves as an inspiration for their peers to strive for excellence. The department appreciates their dedication and congratulates them for bringing laurels to the institution. We wish them continued success in their journey as technology leaders of the future.

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*Congrats!!!*



**Suganthan.S**  
II Year



**Google**  
Student  
Ambassador



**Sri vardhini S.R**  
II Year

**On the outstanding  
achievement of attaining  
the **Google Student  
Ambassador.****

**Batch : 2024 - 2028**



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## Internship Achievement

**K. Lokesh**, B.Tech student from the Department of Artificial Intelligence and Data Science at St. Joseph's College of Engineering, has successfully completed his **internship at the Tamil Nadu Skill Development Corporation**. The internship was conducted from 9th June 2025 to 27th June 2025 and provided him with valuable exposure to various skill development initiatives and industry-aligned programs. During this period, he actively engaged in learning activities, gaining insights into how government-led skill development schemes are planned, executed, and monitored. This experience enhanced his understanding of real-world applications of technology and its impact on workforce development and employability. The department congratulates K. Lokesh on the successful completion of this internship and appreciates his efforts in utilizing this opportunity to enhance his technical and professional skills.



## Internship Achievement

**A. Nandhika**, B.Tech student specializing in Artificial Intelligence and Data Science at St. Joseph's College of Engineering, has successfully completed her **internship with the Tamil Nadu Skill Development Corporation**. The internship spanned from 9th June 2025 to 30th June 2025 and offered her valuable practical exposure to the initiatives and projects carried out by the organization. This opportunity allowed her to gain meaningful insights into skill enhancement programs and understand their impact on employability and industry readiness. Her successful completion of this internship reflects her dedication to learning beyond the classroom and strengthening her professional skills. We extend our congratulations to A. Nandhika on this accomplishment and wish her success in her future endeavors.



# Student Achievement in Sports

Dinesh Kumar R, a III year student of Artificial Intelligence and Data Science (AI & DS) from St. Joseph's College of Engineering, has showcased his sporting talent at the Anna University Zonal Tournaments 2025–2026. Representing our college, he actively participated as part of the team in the tournaments held at DB Jain College, Chennai, from 07.09.2025 to 10.09.2025. His consistent efforts, discipline, and sportsmanship played a vital role in the event. This recognition highlights the commitment of our students not only to academics but also to extracurricular excellence. Participation in such university-level tournaments demonstrates their all-round growth and competitive spirit. The department and institution wholeheartedly congratulate Dinesh Kumar R for his commendable achievement and extend best wishes for many more successes in academics, sports, and beyond.



# Student Achievement in Sports

We are delighted to share that **Dinesh Kumar R** from St. Joseph's College of Engineering, Department of Artificial Intelligence and Data Science, has brought laurels through his sporting excellence. He represented Ranipet District in the **Tamil Nadu Chief Minister's Trophy Games 2025 – District Level Competitions**, organized by the Sports Development Authority of Tamil Nadu in September 2025. Dinesh Kumar showcased his talent in **Badminton (Singles)** and emerged victorious with a **Silver Medal**, highlighting his dedication and competitive spirit. This recognition at a prestigious state-level sporting event demonstrates his ability to balance both academics and athletics. His success reflects the encouragement and support provided by the institution for holistic student development. We extend our warmest congratulations to Dinesh Kumar R on this success and wish him the very best in his journey ahead.



# Students Excel in Inter-College Symposium



Students from St. Joseph College of Engineering brought laurels to their institution by excelling at the 4th National Level Technical Symposium **ZYVERSE 2K25**, organized by the Department of Cyber Security, **SRM Valliammai Engineering College**. **S. Boomiga** and **V. Jeffron Walter** showcased their technical expertise and innovative thinking in the event "**Prompt Protocol**" and secured the **Second Prize**. The competition witnessed participation from several talented students across the country, making their achievement highly commendable. Their success reflects their dedication, problem-solving skills, and innovative mindset. Both winners expressed their gratitude to their mentors and institution for constant support and guidance. This recognition not only adds value to their academic journey but also stands as an inspiration to their peers to strive for excellence. St. Joseph College of Engineering takes immense pride in their achievement and continues to motivate students to participate actively in national-level technical events.



# Students Excel in Inter-College Symposium



Dharshin S and Monika B from St. Joseph's College of Engineering have made their institution proud by securing the **Second Prize** in the **Quantum Shift** event at **IGNITIA 2025**. This National Level Symposium, organized by the Department of Electrical and Electronics Engineering, was hosted by **Sri Sairam Engineering College**, West Tambaram, Chennai, on 18th September 2025. The event witnessed participation from colleges across the country and featured various technical events that encouraged innovation and problem-solving skills. Dharshin and Monika showcased their exceptional knowledge and quick-thinking abilities, standing out among several competitors. Their performance reflects their dedication, teamwork, and commitment to academic excellence. This recognition not only highlights their technical skills but also brings prestige to St. Joseph's College of Engineering. Their achievement serves as an inspiration for fellow students to actively participate and excel in such national-level competitions.



# Students Excel in Inter-College Symposium

Kishor N from St. Joseph College of Engineering has brought pride to his institution by securing the **First Prize** in the **Techno Quiz** event at **ELECTROTHRIVE 2025**, a National Level Technical Symposium. The event was organized by the Department of Electronics and Communication Engineering at **Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College, Avadi, Chennai**. Held on 12th September 2025, the symposium witnessed participation from students across the country. Kishor's achievement reflects his dedication and technical knowledge, showcasing his ability to excel in competitive platforms. The recognition also highlights the commitment of St. Joseph College of Engineering in nurturing talented students who perform exceptionally well at national-level technical events.



# Students Excel in Inter-College Symposium

Jovita S from St. Joseph College of Engineering participated in the **Techno Quiz** event at **ELECTROTHRIVE 2025**, a National Level Technical Symposium organized by the Department of Electronics and Communication Engineering, **Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College, Chennai**. Competing with several talented students from various institutions, Jovita showcased her knowledge and quick thinking skills, securing the **Second Prize**. The event was held on 12th September 2025 and provided a platform for young minds to demonstrate their technical excellence. This achievement stands as a proud moment for the college and inspires peers to actively take part in inter-college competitions and showcase their talent on larger platforms.



# Students Excel in Inter-College Symposium

Nishanth S from St. Joseph's College of Engineering achieved **First Place** in the **Treasure Hunt** event at **ELECTROTHRIVE 2025**, a National Level Technical Symposium. The event was organized by the Department of Electronics and Communication Engineering at **Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College**, Avadi, Chennai, in September 2025. This symposium brought together talented students from various institutions to participate in competitive technical events. Nishanth's excellent performance and problem-solving skills helped him secure the top position in the competition. His accomplishment highlights his enthusiasm and dedication, bringing pride and recognition to St. Joseph's College of Engineering.



# Students Excel in Inter-College Symposium



Theeraj J and Sivaranjani K P, second-year students of Artificial Intelligence and Data Science from St. Joseph's College, have brought pride to the institution through their remarkable achievement. They participated in the National Level Technical Symposium **NEXORA 2k25**, organized by the Department of Materials Physics at **SIMATS Engineering, Saveetha Institute of Medical Technical Sciences, Thandalam, Chennai**. In this symposium, they took part in the prestigious event "Technical Quiz," where they showcased their technical knowledge, quick thinking, and problem-solving abilities. Competing against several talented teams from across the country, they secured the **Second Prize**, highlighting their dedication and teamwork. Such accomplishments underline the strength of the Artificial Intelligence and Data Science department in nurturing talent and motivating students to excel. Their achievement is a proud moment for the department and the institution, symbolizing the growing prominence of the students in academic and professional domains.

# Students Excel in Inter-College Symposium



Second-year students from the Artificial Intelligence and Data Science program, Vaplan Jino P and Shrvinish M, demonstrated their talent at the National Level Technical Symposium, NEXORA2k25. They both competed in the same event, "LOGO GUESSING," which was a part of the prestigious symposium and won first prize. This event was organized by the Department of Materials Physics at SIMATS Engineering. The symposium was held on the 11th of September, 2025, in Thandalam, Chennai. Both students excelled in this highly competitive, national-level event. Their exceptional performance led them both to secure top prizes in their event. In recognition of their outstanding achievement, each was awarded a formal Certificate of Appreciation. These certificates were proudly issued by SIMATS Engineering. The documents were formally endorsed by the Principal, Dr. B. Ramesh. This accomplishment highlights the calibre of students in the Artificial Intelligence and Data Science discipline.

# Students Excel in Inter-College Symposium



Second-year students from the Artificial Intelligence and Data Science program, **Vaplan Jino P** and **Shrvinish M**, demonstrated their talent at the National Level Technical Symposium, **NEXORA2k25**. They both competed in the same event, "**LOGO GUESSING**," which was a part of the prestigious symposium and won **first prize**. This event was organized by the Department of Materials Physics at **SIMATS Engineering**. The symposium was held on the 11th of September, 2025, in Thandalam, Chennai. Both students excelled in this highly competitive, national-level event. Their exceptional performance led them both to secure top prizes in their event. In recognition of their outstanding achievement, each was awarded a formal Certificate of Appreciation. These certificates were proudly issued by SIMATS Engineering. The documents were formally endorsed by the Principal, Dr. B. Ramesh. This accomplishment highlights the calibre of students in the Artificial Intelligence and Data Science discipline.

# Students Excel in Inter-College Symposium



Three students from the **second year** of Artificial Intelligence and Data Science, **Shalini M, Yokesha Bala S P, and Yeswanth Brian A B**, have showcased their technical prowess at the national level. They participated in the prestigious **NEXORA 2k25** technical symposium organized by the Department of Materials Physics at **SIMATS Engineering** on September 11, 2025. All three contenders demonstrated their skills in the challenging "**PASSWORD CRACKING**" event during the symposium. Their exceptional performance led each of them to secure a **top prize** in this highly competitive event. In recognition of their remarkable achievement, they were individually honored with a Certificate of Appreciation. These certificates were formally issued by SIMATS Engineering, an institution with notable accreditations. The documents were duly authenticated and signed by the Principal, Dr. B. Ramesh. This collective accomplishment highlights the talent and dedication present within the student body. It brings significant pride to their department and college, St. Joseph's College. Their success serves as an inspiration for their peers in the field of Artificial Intelligence and Data Science.

# Students Excel in Inter-College Symposium



Students from the **second year** of the Artificial Intelligence and Data Science program, including **Mohamad Hamza, Sakthi Varuhishari S, and Rishikesavan C**, have demonstrated their technical prowess at the national level. They participated and won **second prize** in the prestigious **NEXORA2k25** technical symposium organized by the Department of Materials Physics at **SIMATS Engineering** on September 11, 2025. Mohamad Hamza, Sakthi Varuhishari S and Rishikesavan C excelled in their respective **"PASSWORD CRACKING"** competitions. Their remarkable performances at this national symposium earned each of them a formal Certificate of Appreciation from the institution. These certificates were issued by SIMATS Engineering, an NBA Tier I accredited institution, highlighting the quality of the event. The achievements of these students bring great pride to the B-Tech Artificial Intelligence and Data Science department. Their success is a testament to their hard work, dedication, and the excellent training provided by their program. This collective accomplishment underscores the bright potential of the students in the field of cutting-edge technology.

# Students Excel in Competitions

We are proud to share that our students **Priyanka S** and **Pavithra B**, as part of the **team Data Miners**, secured the **Second Position** in the **DataViz Competition** conducted by the **Data Analytics Club** of the Artificial Intelligence & Data Science Department at St. Joseph's College of Engineering on 23rd September 2025. Their remarkable performance in the event showcased their creativity, analytical thinking, and problem-solving abilities. This achievement stands as a testament to their dedication and skill, and we wholeheartedly congratulate them while wishing them continued success in future endeavors.



# Symposium- Data Echelon'25

The Department of Artificial Intelligence and Data Science at St. Joseph's College of Engineering organized **Data Echelon'25**, a national-level technical symposium, on 13th September 2025. The symposium featured a variety of exciting events such as

1. Game of Thrones
2. Uxlerate
3. Artificial Aesthetics
4. Prompt Wars and
5. Data Verse.

It is designed to test creativity, problem-solving abilities, and technical expertise. The event encouraged collaboration, innovation, and competitive spirit among participants. With free registration and a **prize pool of Rs. 30,000**, the symposium attracted widespread participation. Student coordinators **Mohammed Naazil A.A, Akshaya Shree, and Shaik Farzan Ali S** played a crucial role in organizing the event successfully. The program was convened by **Dr. L. Sherly Pushpa Annabel** and supported by staff coordinators **Dr. R. Ramya and Ms. Kalpana S.** Participants engaged enthusiastically, making the event lively and impactful. The symposium provided a platform for students to gain exposure to real-world applications of AI and data science.



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*Department of Artificial Intelligence & Data Science*

## DATA ECHELON'25

A national level technical symposium

# 13<sup>th</sup> September 2025

TIME: 8:30AM

**FREE REGISTRATION**



**PRIZE POOL RS. 30,000**

**Events**

- GAME OF THRONES
- UXLERATE
- ARTIFICIAL AESTHETICS
- PROMPT WARS
- DATA VERSE

**Student Coordinator**

Mohammed Naazil A.A  
 (0141160065)  
 Akshaya Shree -  
 Shaik Farzan Ali S

**Convener**

Dr. L. Sherly Pushpa  
 Annabel

**Staff Coordinators**

Dr. R. Ramya  
 Ms. Kalpana S

# Symposium – Data Echelon'25



# Artificial Aesthetics – Data Echelon'25

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DEPARTMENT OF ADS  
 Presents

DATA ECHELON '25

ARTIFICIAL  
 AESTHETICS

Where Art Meets AI

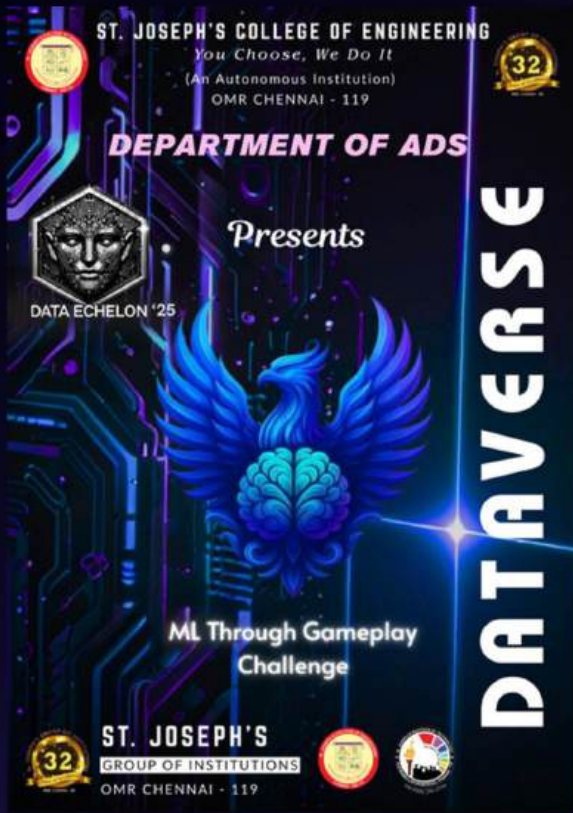
ARTIFICIAL AESTHETICS

ST. JOSEPH'S  
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The Department of Artificial Intelligence and Data Science at St. Joseph's College of Engineering organized an exciting event titled "Artificial Aesthetics" as part of Data Echelon'25. The event aimed to explore the fascinating intersection of art and artificial intelligence, encouraging participants to blend creativity with technology. Students showcased innovative ideas and artistic creations generated with the help of AI tools. The event provided a platform for participants to experiment with generative AI, design concepts, and digital artistry. It inspired students to think creatively and understand how AI can enhance human imagination. Faculty and participants engaged in insightful discussions on the future of AI-driven art. "Artificial Aesthetics" successfully combined technology and creativity, leaving participants inspired.



# Data Verse - Data Echelon'25



The Department of Artificial Intelligence and Data Science at St. Joseph's College of Engineering hosted "Data Verse" as part of Data Echelon'25. This unique event focused on exploring machine learning concepts through an interactive and engaging gameplay format. Participants were challenged to apply ML techniques to solve real-time problems presented in a gamified environment. Faculty mentors guided participants throughout, ensuring a productive and insightful session. "Data Verse" proved to be a perfect blend of education and entertainment, leaving students motivated to explore ML further.



# Prompt Wars- Data Echelon '25



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DEPARTMENT OF ADS

Presents

DATA ECHELON '25

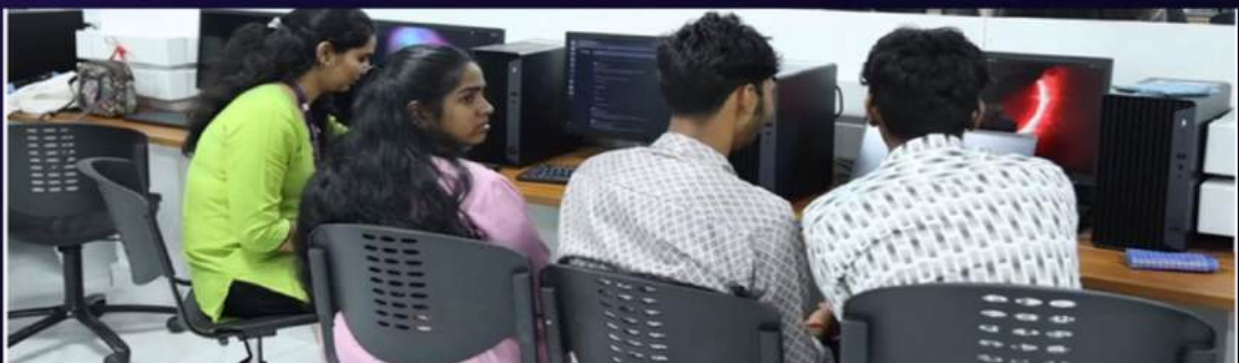
PROMPT WARS  
WEB & APP DEVELOPMENT EVENT

Fewer Prompts, Smarter Wins

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PROMPT WARS

The Department of Artificial Intelligence and Data Science at St. Joseph's College of Engineering organized an engaging event titled "Prompt Wars" as part of Data Echelon '25. This competition focused on web and app development with a unique twist – participants were challenged to build solutions using the least number of prompts possible, truly testing their efficiency and problem-solving skills. The event encouraged creativity, precision, and innovation, pushing participants to think critically and generate optimized outputs. With the theme "Fewer Prompts, Smarter Wins," the contest became a platform for showcasing technical expertise and AI-powered development skills. Students collaborated enthusiastically, producing innovative results under time constraints, making the event both competitive and inspiring.



# UXlerate - Data Echelon'25



The Department of Artificial Intelligence and Data Science at St. Joseph's College of Engineering hosted an exciting event titled "UXlerate" as part of Data Echelon'25. Focused on the theme "UI/UX Redefined," the event aimed to inspire participants to explore innovative design thinking, user experience optimization, and interface development techniques. The competition encouraged creativity, problem-solving, and attention to detail, helping participants understand the importance of user-centric design in modern applications. The event provided a platform for budding designers to showcase their skills, collaborate, and accelerate their learning in the ever-evolving field of UI/UX.



# Game of Thrones- Data Echelon '25



The Department of Artificial Intelligence and Data Science at St. Joseph's College of Engineering organized DATA ECHELON '25, featuring the exciting event Game of Thrones – Deceive the AI & Win the Throne. This unique competition challenged participants to outsmart AI systems through strategy and problem-solving, creating a thrilling and competitive atmosphere that drew students from multiple departments. Participants were encouraged to think critically and apply AI and data science concepts innovatively, blending technology with the popular Game of Thrones theme. Students worked in teams, sharpening their analytical, logical, and decision-making skills while showcasing their technical expertise. DATA ECHELON '25 inspired students to explore more opportunities in AI and data-driven problem-solving.



## Data Analytics Club Inauguration



The Department of Artificial Intelligence and Data Science at St. Joseph's College of Engineering successfully inaugurated the Data Analytics Club on 17th September 2025. The event, held at the AV Hall (Library), was organized exclusively for first-year B.Tech/ADS students to introduce them to the club's objectives and assign member roles. The Chief Guest, Mr. Eneeyan Nanmaran, Corporate Trainer at IQ Math India, was honored with a memento and later conducted an engaging workshop on Google Looker Studio. Using live demonstrations and screen sharing, he guided students in creating effective dashboards, giving them hands-on experience with industry-standard tools. The program marked the official launch of the club, creating a platform for students to explore data analytics concepts. It motivated participants to collaborate, innovate, and actively engage in future activities. The inauguration laid the foundation for a vibrant and impactful Data Analytics Club.



# Code to Success Workshop

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A+  
 NAAC

NBA  
 NATIONAL BOARD OF ACCREDITATION

nirf  
 NATIONAL INSTITUTE RANKING FRAMEWORK

DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Organizes  
**WORKSHOP**  
 >>> **CODE TO SUCCESS** <<<

04 SEPTEMBER, 2025  
 9.30 AM - 1 PM

**VENUE**  
 LAUREL  
 HALL (PLACEMENT  
 BLOCK)

**Mr. N. Jeyaprakash**  
 Director  
 ATC Technologies  
 Chennai.

for  
 3rd Year ADS  
 Students

LEARN WITH JOY & GROW WITH HAPPINESS!!

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The Department of Artificial Intelligence and Data Science of St. Joseph's College of Engineering, OMR, Chennai, is organizing a workshop titled "Code to Success" on 4th September 2025 from 9:30 AM to 1:00 PM at Laurel Hall (Placement Block). This exclusive workshop is designed for 3rd year ADS students with the objective of enhancing their coding abilities, problem-solving mindset, and industry readiness. The session will be led by Mr. N. Jeyaprakash, Director of ATC Technologies, Chennai, an experienced professional who will share practical insights and strategies for excelling in the field of technology. Through this interactive session, students will gain exposure to real-world challenges, understand industry expectations, and learn how to prepare effectively for their future careers. This initiative reflects the department's commitment to empowering students with the skills and confidence needed to succeed, thereby bridging the gap between academic knowledge and professional competence. The workshop promises to be an inspiring and enriching experience, motivating students to learn with joy and grow with happiness.

# Quiz Event – Hack the Brain

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**IEEE** | St. Joseph's College of Engineering Student Branch Chapter | **SMC**  
 Systems, Man, and Cybernetics Society

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE  
 In association with  
 IEEE SYSTEMS, MAN AND CYBERNETICS SOCIETY - SJCE SB  
 Presents  
**HACK THE BRAIN QUIZ**

**ON 04.09.2025**

THINK SMART!  
 PLAY HARD!  
 HACK YOUR BRAIN!  
 EVERY CHALLENGE IS AN OPPORTUNITY TO UNLOCK THE POWER OF YOUR MIND!

**EXCLUSIVE FOR SECOND YEAR ADS STUDENTS**

TIME : 11.00 AM - 12.00 PM  
 VENUE : SMART CLASS ROOM (12<sup>TH</sup> BLOCK)

**CONTACT**  
 9789548293  
 8760430744

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The Department of Artificial Intelligence and Data Science of St. Joseph's College of Engineering, in association with IEEE Systems, Man and Cybernetics Society – SJCE SB, organized an exciting quiz event titled “Hack the Brain” on 4th September 2025. The event was conducted exclusively for second-year ADS students to encourage critical thinking and quick problem-solving skills. It was held from 11:00 AM to 12:00 PM in the Smart Class Room, 12th Block, and featured multiple engaging rounds of questions. The quiz was designed to challenge students' technical knowledge, logical reasoning, and general awareness in a fun and interactive way. Participants collaborated enthusiastically in teams and showcased great energy throughout the event. Each round kept the audience engaged and created a healthy competitive spirit among the students. The organizers provided quick explanations after each question, making the event a great learning experience as well. Faculty coordinators and IEEE SMC members ensured smooth conduct of the program with proper planning and execution. At the end of the event, winners were appreciated for their outstanding performance. Overall, “Hack the Brain” was a successful and memorable event that inspired students to think smart, play hard, and unlock the true potential of their minds.

## Smart India Hackathon – Mentoring Session



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DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE

**SMART INDIA HACKATHON  
 MENTORING SESSION**

*Don't miss the opportunity to expand your knowledge and skills! We invite you to join our exciting and informative Mentoring Session*

**Mr. Eneeyan Nanmaran**  
 Corporate Trainer  
 IQ MATH INDIA

**THURSDAY, SEPTEMBER  
 04, 2025**

**9:30 AM - 10:00 AM**

**4<sup>TH</sup> FLOOR ADS LAB**

**FOR ALL ADS STUDENTS**

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The Department of Artificial Intelligence and Data Science of St. Joseph's College of Engineering organized an insightful **Smart India Hackathon Mentoring Session** on **4th September 2025**. The session aimed to prepare students for participating in the prestigious Smart India Hackathon by guiding them on problem-solving strategies and innovation techniques. It was held from 9:30 AM to 10:00 AM in the 4th Floor ADS Lab, providing an interactive and focused learning experience. The session was conducted by **Mr. Eneeyan Namaran, Corporate Trainer from IQ Math India**, who shared valuable tips on approaching hackathon problems effectively. Students were encouraged to think creatively, collaborate as a team, and develop solutions with real-world impact. The mentor emphasized the importance of structured thinking, time management, and clear communication during hackathons. The session also included discussions on common challenges faced during competitions and ways to overcome them. Faculty coordinators ensured smooth organization and encouraged maximum student participation. Overall, the mentoring session was highly beneficial, motivating students to actively participate in the Smart India Hackathon with confidence and enthusiasm.



## Dataviz-Hands- on Workshop

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**DEPARTMENT OF  
ARTIFICIAL INTELLIGENCE & DATA SCIENCE**  
ORGANIZES  
**DATAVIZ**  
A Hands-on Workshop on Data Visualization  
IN ASSOCIATION WITH  
**DATA ANALYTICS CLUB**

**DATE: 23.09.23 (TUESDAY)**  
**VENUE: AV HALL (LIBRARY)**

**1<sup>st</sup> Year Students**  
EVENT: HANDS-ON WORKSHOP  
ON DATA VISUALIZATION  
TIME: 8:30 AM - 10:30 AM

**2<sup>nd</sup> Year Students**  
EVENT: HANDS-ON WORKSHOP  
ON DATA VISUALIZATION &  
COMPETITION  
TIME 8:30 AM - 1:00 PM

**EXCLUSIVE FOR  
ADS I & II YEARS**

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The Department of Artificial Intelligence and Data Science at St. Joseph's College of Engineering organized **DATAVIZ**, a hands-on workshop on **Data Visualization**, in association with the Data Analytics Club. The event was conducted on 23rd September 2023 at the AV Hall (Library) and was exclusively designed for **first- and second-year ADS students**. The program aimed to introduce students to data visualization concepts and tools widely used in industry. The session for first-year students focused on building a strong foundation in visualization techniques and was held from 8:30 AM to 10:30 AM. For second-year students, the workshop extended till 1:00 PM and included a **Data Visualization Competition**, giving them a platform to apply their knowledge creatively. The event encouraged active participation, collaboration, and problem-solving. Students were guided step by step to create meaningful dashboards and visual representations of data. The session enhanced both technical knowledge and practical exposure to analytics tools. The workshop successfully motivated students to explore data analytics and visualization as a key skill for their academic and professional growth.



## Communication Training- II year



The Department of Artificial Intelligence and Data Science organized a **Linguaskill Training** Program for II year students from **15th to 19th September 2025** at the 12th Block. The program aimed to enhance students' English language proficiency and prepare them for academic, professional, and global communication. It focused on the four core skills of Listening, Speaking, Writing, and Reading, providing a balanced learning experience. Expert trainers conducted interactive sessions with **group discussions, role plays, presentations, and hands-on practice**. Listening activities improved accent comprehension, while speaking sessions built fluency and confidence. Writing workshops strengthened grammar, vocabulary, and report/essay structuring skills. Reading sessions focused on comprehension, speed, and critical thinking. Students were also provided with a practice booklet for continued independent learning. The program successfully boosted students' communication skills, instilling confidence and preparing them for future academic and professional challenges.

## Value Added Course – III year

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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE**

Organizes  
**VALUE ADDED COURSE**  
On  
**VAC005 - INDUSTRIAL PRACTICES WITH DEVOPS**  
**VAC006 - APPLIED MACHINE LEARNING WITH PYTHON**

15-09-2025  
to  
19-09-2025

ADS LAB(12th Block)  
&  
Class Rooms

For 3<sup>rd</sup> Year  
ADS  
Students

Happy Learning!!!

**RESOURCE PERSONS**

**Mr. Murugan M**  
Devops Engineer  
Cloudelu

**Mr. Santhosh Vactor Amburose**  
Sr. Business Analyst  
Freshworks

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The Department of Artificial Intelligence and Data Science of St. Joseph's College of Engineering organized a Value Added Course for third-year ADS students on "Industrial Practices with DevOps" (VAC005) and "Applied Machine Learning with Python" (VAC006) from 15th to 19th September 2025. The sessions were conducted at the ADS Lab (12th Block) and classrooms, providing students with a perfect blend of theory and hands-on learning. The course was facilitated by Mr. Murugan M, DevOps Engineer at Cloudelu, and Mr. Santhosh Vactor Amburose, Sr. Business Analyst at Freshworks, who shared their industry expertise and guided students through real-world applications. This value-added program aimed to bridge the gap between academic knowledge and practical skills, preparing students for future roles in software development, automation, and data-driven problem-solving. Students actively participated in the sessions and appreciated the opportunity to gain exposure to modern industry practices.



## Value Added Course – IV Year

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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE**

*Organizes*  
**VALUE ADDED COURSE**  
 VAC003 - Ethical Hacking - Cyber Security  
 VAC005 - Industrial Practices - Devops  
 VAC006 - Applied Machine Learning with Python

**Resource Persons**



**Ms. Rajeswari Ravi**  
 TL, Gainwell Technologies



**Mr. Rajendhiran**  
 Enovia developer, Accenture



**Mr. Pradhan V**  
 MD, Zero2infynite



**Ms. Kamala P**  
 SME, Syasans Career Analytics

**15-09-2025**  
 to  
**19-09-2025**

**ADS LAB(12th Block)  
 & Class Rooms**

*For Final  
 Year ADS  
 Students*

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The Department of Artificial Intelligence and Data Science of St. Joseph's College of Engineering organized a **five-day Value Added Course** from 15th to 19th September 2025 for **final-year ADS** students. The program included three courses – **Ethical Hacking & Cyber Security (VAC003)**, **Industrial Practices with DevOps (VAC005)**, and **Applied Machine Learning with Python (VAC006)**. Sessions were held in the ADS Lab (12th Block) and classrooms, combining theory with hands-on practice. **Ms. Rajeswari Ravi** from **Gainwell Technologies** trained students on ethical hacking techniques and cybersecurity best practices. **Mr. Rajendhiran** from **Accenture** guided students through DevOps workflows, CI/CD pipelines, and industry use cases. Machine Learning sessions were handled by **Mr. Pradhan V** from **Zero2infynite** and **Ms. Kamala P** from **Syasans Career Analytics**, focusing on Python-based model building. Students actively participated, worked on mini-projects, and gained exposure to real-world tools like Git, Docker, and Jenkins. Certificates were awarded to participants, adding value to their academic and professional profiles. Overall, the course enhanced technical skills, industry readiness, and problem-solving abilities of the students.



# Ideas to Impact: Research Strategies

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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE**

Organizes IEEE SMC

**SEMINAR**

**FROM IDEAS TO IMPACT**  
An effective research writing strategies

**Ms.E.ASWINI**  
Assistant Professor  
Dept of ADS

Exclusively for  
III Year  
ADS Students

12 SEPTEMBER, 2025 | 9:30 - 11:30 AM  
Venue : Hazel Hall (Placement Block)

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The Department of Artificial Intelligence and Data Science of St. Joseph's College of Engineering organized an enriching seminar titled "From Ideas to Impact – Effective Research Writing Strategies" on 12th September 2025. The session, held at Hazel Hall (Placement Block) from 9:30 AM to 11:30 AM, was exclusively arranged for third-year ADS students to enhance their understanding of research writing. Ms.E.Aswini, Assistant Professor, Department of ADS, served as the resource person and guided students on how to transform innovative ideas into impactful research papers. The seminar covered essential aspects such as topic selection, literature review, methodology design, and effective representation of data. The speaker shared practical tips for writing papers suitable for conferences and journals, motivating students to engage in research activities.



# Industry Interaction

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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE**  
**INDUSTRY INSTITUTE INTERACTION**





**Pyroferus Technologies**

Dr. Vijayalakshmi J visited Pyroferus Technologies as part of the Industry-Institute Interaction initiative, fostering collaboration and innovation. During the visit, she met Ms. Rekha, Managing Director, and Mr. Somu, Architect, to discuss potential avenues for partnership and knowledge exchange.

**Outcomes:**

- Agreed to establish a Memorandum of Understanding (MoU)
- Agreed to facilitate Industrial Visits for students
- Agreed to introduce Value Added Courses to enhance industry-relevant skills
- Explored opportunities for student internships, projects, Guest Lectures and training.

Date: 13-09-2025

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Dr. Vijayalakshmi J from the Department of Artificial Intelligence and Data Science visited **Pyroferus Technologies** on 13th September 2025. The visit was part of the Industry-Institute Interaction initiative to strengthen collaboration and foster innovation. She met **Ms. Rekha, Managing Director, and Mr. Somu, Architect**, during the interaction. Discussions focused on exploring potential avenues for partnership and mutual knowledge exchange.





A Memorandum of Understanding (MoU) was agreed to be established. They also agreed to facilitate Industrial Visits for students. Plans were made to introduce **Value Added Courses** to enhance industry-relevant skills. Opportunities for student internships, projects, guest lectures, and training were explored. The visit marked a significant step in bridging the gap between academia and industry. This collaboration aims to benefit students by providing exposure to real-world practices and emerging technologies.



# Industry Interaction

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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE**

**INDUSTRY INSTITUTE INTERACTION**

Mr Vinodh Kumar K visited Nodlehs AI 256 Pvt Ltd as part of the Industry–Institute Interaction initiative, fostering collaboration and innovation. During the visit, he met Mr.Praveen, Managing Director to discuss potential avenues for partnership and knowledge exchange.








**OUTCOMES**

- Agreed to establish a Memorandum of Understanding (MoU)
- Strengthened industry–institute collaboration.
- See real-world use of Machine Learning, Computer Vision, and AI ethics.
- Explored opportunities for Student Internships, Placements, Projects, Guest Lectures and training.

Date: 17-09-2025



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The Department of Artificial Intelligence and Data Science organized an Industry–Institute Interaction visit on 17th September 2025. Mr. Vinodh Kumar K visited Nodlehs AI 256 Pvt Ltd and met Mr. Praveen, Managing Director, to discuss collaboration opportunities. The visit aimed to strengthen industry–academia partnerships and explore knowledge exchange initiatives. A key outcome was the agreement to establish a Memorandum of Understanding (MoU) with the company. The MoU will enable internships, placements, projects, and training programs for students. The visit also offered exposure to real-world applications of Machine Learning, Computer Vision, and AI Ethics. Discussions focused on bridging the gap between academic learning and industry requirements. Guest lectures and expert workshops were proposed to benefit students and faculty. This collaboration is expected to enhance students' skills, technical knowledge, and employability. The department looks forward to a strong and sustainable partnership with Nodlehs AI 256 Pvt Ltd.






# Academic Audit- ADS

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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE**  
**ACADEMIC AUDIT**



Dr Uma Rani J  
 Assistant Professor (Grade I)  
 Department of Computer Science and Engineering  
 Indian Institute of Information Technology, Design and  
 Manufacturing (IIITDM) Kancheepuram




Dr. Jani Anbarasi  
 Associate Professor  
 School of Computer Science and Engineering  
 Vellore Institute of Technology, Chennai



Date:  
26/09/2025

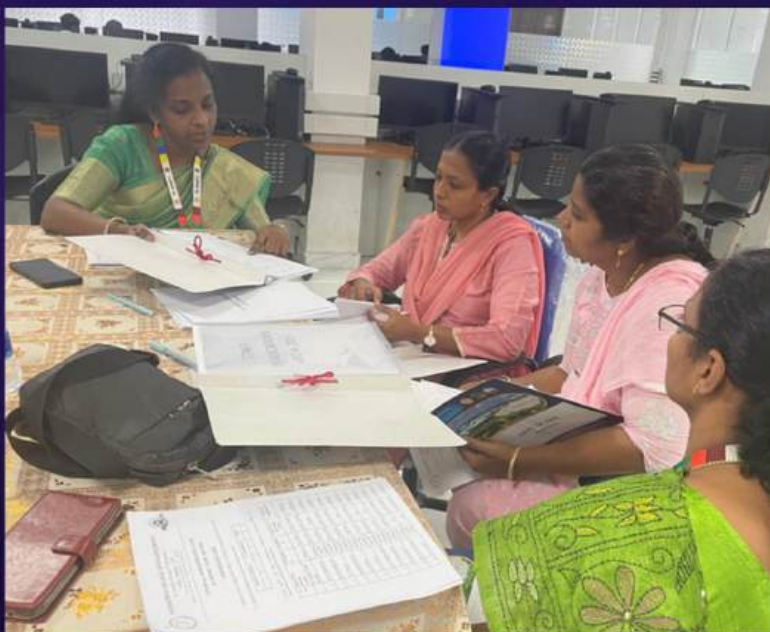
Time:  
9 am to 12 pm

Venue:  
ADS Lab


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The Department of Artificial Intelligence and Data Science at St. Joseph's College of Engineering conducted its **Academic Audit on 26th September 2025**. The audit session was held from 9:00 AM to 12:00 PM at the ADS Laboratory. The objective of the audit was to review and assess the academic performance, curriculum delivery, and departmental activities. The event featured expert auditors, **Dr. Uma Rani J, Assistant Professor (Grade I) from IIITDM Kancheepuram, and Dr. Jani Anbarasi, Associate Professor from Vellore Institute of Technology, Chennai**. Faculty members presented academic records, course files, and student performance reports. The auditors interacted with the faculty to provide feedback on teaching methodologies and assessment practices. Overall, the audit was a valuable exercise that strengthened the department's commitment to quality education.



## Technical Training- Data Structure & Algorithms

The Department of Artificial Intelligence and Data Science conducted **Technical Training for second-year students**, focusing on **Data Structures and Algorithms using Java Programming** during Model II Examinations. The training sessions were led by experienced technical trainers **C. Preethi and Jenifamily K from Sixphrase**. Students gained hands-on experience in implementing core data structures, understanding algorithmic problem-solving techniques, and enhancing their programming skills. The program aimed to bridge theoretical knowledge with practical applications, preparing students for industry-ready competencies.



# Technical Training- Power BI

The Department of Artificial Intelligence and Data Science organized Technical Training for **third-year students**, focusing on **Power BI** and conducted by professionals from **Aptitude Guru** during Model II Examinations. The sessions offered hands-on experience in creating interactive dashboards, performing data analysis, and generating insightful visual reports. Students learned to transform raw data into meaningful business intelligence, enhancing their analytical and decision-making skills. Participants actively engaged in exercises and collaborative projects, ensuring a practical understanding of key concepts.



# Technical Training- Gen AI

The Department of Artificial Intelligence and Data Science organized Technical Training for final-year students on Generative AI (GEN AI), conducted by experts from Aptitude Guru during Model II Examinations. The training provided students with hands-on exposure to the latest generative AI techniques, including content generation, AI-driven solutions, and practical implementation strategies. Participants learned how to leverage GEN AI tools for real-world applications, enhancing creativity and problem-solving skills. The sessions also focused on ethical considerations and best practices while working with AI models. Students engaged in interactive projects, strengthening their understanding of advanced AI concepts and preparing them for industry-ready roles.



# Ayudha Pooja Celebration-ADS

The Department of Artificial Intelligence and Data Science at St. Joseph's College of Engineering celebrated **Ayudha Pooja** with great enthusiasm. All faculty members and students participated in the ceremony held in the department lab, creating a festive and vibrant atmosphere. The event included traditional rituals, prayers, and offerings to honor tools, equipment, and knowledge that empower learning and innovation. Students and staff together decorated the lab, fostering a sense of unity and community within the department. The celebration served as an opportunity to express gratitude, strengthen bonds among peers, and blend cultural tradition with academic life.



# Faculty Paper Publications

Title: Performance Benchmarking of AI Conversational Models: A Study on ChatGPT and DeepSeek

Author: Dr Kotteeswaran Rangasamy



We are proud to announce that Dr. Kotteeswaran Rangasamy presented his research paper titled “Performance Benchmarking of AI Conversational Models: A Study on ChatGPT and DeepSeek” at the 16th International IEEE Conference on Computing, Communication and Networking Technologies (ICCCNT 2025). His work focuses on evaluating and comparing the performance of advanced AI conversational models, contributing valuable insights to the field of Artificial Intelligence and Natural Language Processing.

- Event: 16th International IEEE Conference on Computing, Communication and Networking Technologies (ICCCNT 2025)
- Date: 6th – 11th July 2025
- Venue: IIT Indore, Madhya Pradesh, India
- Conference Association: IEEE Electronics Packaging Society & AICTE
- Conference Chair / Co-Chair: S. Mohan

# Faculty Paper Publications

Title: Deep Learning based Classification of Copy Number Variations in Cervical Carcinoma using Array Comparative Genomic Hybridization Data

Author: Mr. A. Vijay



Mr. A. Vijay successfully presented his research paper titled “Deep Learning based Classification of Copy Number Variations in Cervical Carcinoma using Array Comparative Genomic Hybridization Data” at the 5th International Conference on Soft Computing for Security Applications (ICScSA-2025). His research focuses on leveraging deep learning techniques to classify copy number variations in cervical carcinoma, providing a significant contribution to the application of AI in healthcare and genomic data analysis.

- Event: 5th International Conference on Soft Computing for Security Applications (ICScSA-2025)
- Date: 4th – 6th August 2025
- Venue: Dhirajlal Gandhi College of Technology, Salem, Tamil Nadu, India
- Conference Association: IEEE SMC Society & AICTE
- Conference Chair / Co-Chair: Dr. R. Saravanan (Conference Chair), N. Amutha Priya (Session Chair)

# Faculty Paper Publications

**Dr. M.P. Rajakumar**, along with his co-authors Samiyaya D., Ambayiram C., Natarajan H., and Palani R.M., has contributed a significant research article titled **“Optimized Video Streaming in Mobile Environments: A Novel Multihead Autoencoder and Red-Tailed Hawk Optimization Framework.”** This work was published in the reputed Scopus-indexed journal *Journal of the Indian Institute of Science* (2025, Early Access). The proposed model demonstrates dynamic optimization of video quality, bandwidth usage, and latency, even under challenging mobile network conditions. Experimental results revealed remarkable outcomes, including a Peak Signal-to-Noise Ratio of 42.5 dB, a throughput of 900 kbps, and a playback stability of 98%. This impactful contribution highlights the team's excellence in advancing research on multimedia streaming, artificial intelligence, and wireless sensor networks, bringing pride to the Department of Artificial Intelligence and Data Science.

## Optimized Video Streaming in Mobile Environments: A Novel Multihead Autoencoder and Red-Tailed Hawk Optimization Framework

**By** Samiyaya, D (Samiyaya, Duraimurugan) ; Ambayiram, C (Ambayiram, Chinnasamy) ; Natarajan, H (Natarajan, Hariprasad) ; Palani, RM (Muthusamy Palani, Rajakumar)

Are you this author?

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DOI: 10.1080/03772063.2025.2534492

**Early Access**

JUL 2025

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**Document Type**

Article; Early Access

**Abstract**

In recent years, adaptive video streaming over wireless multimedia sensor networks has gained significant attention due to the growing demand for real-time video delivery in mobile environments. However, traditional video transmission methods tend to face challenges in maintaining high video quality while adjusting to changing network conditions. To address this limitation, we propose a novel Interaction Crossover Red-tailed Hawk Optimized Multihead Autoencoder Matrix-factorization model for super-resolution transmission in adaptive video streaming over wireless multimedia sensor networks. Multihead autoencoder matrix-factorization architecture and an optimization method inspired by red-tailed hawks are two advanced optimization algorithms that are combined to create the proposed model. This combined technique not only enhances video resolution but also modifies transmission parameters dynamically, effectively optimizing video quality, bandwidth usage, and latency, regardless of challenging network conditions. The selection of the proposed model is based on its effective approach to managing video quality and network resources in real-time. This model adapts seamlessly to various network conditions, including bandwidth shifts due to user movement, through an interactive crossover strategy. This innovative approach overcomes the static quality limitations of previous systems, leading to substantial improvements in playback stability, throughput, and clarity of the video content. The experimental results demonstrated that the proposed model surpassed the existing models, achieving impressive metrics: a Peak Signal-to-Noise Ratio of 42.5 dB, a throughput of 900 kbps, and a playback stability of 98%. Overall, the proposed framework exhibits significant potential for adaptive video streaming systems in dynamic and mobile environments.

# Faculty Paper Publications

**Dr. M.P. Rajakumar**, together with his co-authors Natesan P., Sreevidya R.C., Srimanickam B., Vellaiyan S., and Van Minh N., has published a notable research article titled “**Exergy Efficiency Optimization of a Water-Based Titanium Dioxide Nanofluid Hybrid Solar Collector Using Advanced Machine Learning Models.**” The study focuses on enhancing the exergy efficiency of hybrid solar collectors by employing advanced machine learning models such as Support Vector Regression, Random Forest, and a Wavelet Transform-based hybrid approach. Experimental investigations revealed that the integration of water-based TiO<sub>2</sub> nanofluids with machine learning models significantly improved predictive accuracy, with exergy efficiency ranging from 12.8% to 20.4%. The findings highlight the role of wind speed, ambient temperature, and solar radiation as critical influencing factors. This impactful research demonstrates the team’s commitment to advancing renewable energy optimization through Artificial Intelligence and sustainable energy technologies, bringing distinction to the Department of Artificial Intelligence and Data Science.

## Exergy efficiency optimization of a water-based titanium dioxide nanofluid hybrid solar collector using advanced machine learning models

<b>By</b> Are you this author?	Natesan, P (Natesan, Poyyamozi); Rajakumar, MP (Rajakumar, M. P.); Sreevidya, RC (Sreevidya, R. C.); Srimanickam, B (Srimanickam, B.); Vellaiyan, S (Vellaiyan, Suresh); Van Minh, N (Van Minh, Nguyen)
	<a href="#">View Web of Science ResearcherID and ORCID</a> (provided by Clarivate)
<b>Source</b>	Volume: 74 DOI: 10.1016/j.csite.2025.106815
<b>Article Number</b>	106815
<b>Published</b>	OCT 2025
<b>Indexed</b>	2025-09-01
<b>Document Type</b>	Article
<b>Abstract</b>	This study investigates the exergy efficiency of a hybrid solar collector using water and water-based titanium dioxide (TiO <sub>2</sub> ) nanofluids, employing advanced machine learning (ML) models to optimize performance evaluation. Support Vector Regression (SVR), Random Forest (RF), and a hybrid approach incorporating Wavelet Transform (WT) were utilized to assess the system’s efficiency. Three statistical metrics, such as mean absolute error (MAE), coefficient of determination (R <sup>2</sup> ), and root mean square error (RMSE), denoted as E1, E2, and E3 respectively, were used to evaluate model performance. Two experimental setups were implemented: the first involved water flow rates of 0.5, 1.0, and 1.5 L per minute, while the second employed a water-based TiO <sub>2</sub> nanofluid with a 0.1 % volume concentration. Results indicate a direct correlation between increased mass flow rates and enhanced exergy efficiency, with energy efficiency ranging from 7.1 % to 11.1 % for water, and 12.8 %-20.4 % for the TiO <sub>2</sub> nanofluid. The integration of WT with ML models significantly improved predictive accuracy, achieving final metrics of 0.874 (E1), 2.212 (E2), and 3.118 (E3). Wind speed, ambient temperature, and solar radiation were identified as critical factors influencing system performance, with hybrid models outperforming individual ML models in both accuracy and reliability.

# Faculty Paper Publications

We are proud to announce that **Dr. Kotteeswaran Rangasamy** presented his research at the 16th International IEEE Conference on Computing, Communication and Networking Technologies (ICCCNT 2025). The event was held at **IIT Indore, Madhya Pradesh**, from July 6th to 11th, 2025, in association with IEEE EPS and AICTE. His paper is titled **“Performance Benchmarking of AI Conversational Models: A Study on ChatGPT and DeepSeek.”** The research benchmarks state-of-the-art conversational AI models in terms of accuracy, reliability, and efficiency. It offers a comparative analysis of ChatGPT and DeepSeek under real-world use cases. The findings provide insights into strengths and limitations of modern conversational AI. Such work guides practical applications in healthcare, education, and industry. The presentation reflects cutting-edge research in Artificial Intelligence and NLP. Dr. Kotteeswaran Rangasamy's contribution highlights our department's global research presence. We congratulate him on this achievement that brings pride to our institution.

Conferences > 2025 11th International Conf...

## Enhancing Classification Performance in Breast Tissue Diagnosis Using TPE-Based Hyperparameter Optimization

Publisher: IEEE [Cite This](#) [PDF](#)

Kotteeswaran Rangasamy ; S. Karthiyayini ; Dileep Pulugu ; Nabeel Amre ; R. Thiagarajan ; R. Krishnamoorthy [All Authors](#)

11 Full Text Views

**Abstract**

Accurate classification of breast tissue is important for the early medical conditions like carcinoma, fibro-adenoma, and mastopathy. Machine learning models hold promise for automating it, but their performance significantly depends on the selection of the optimal hyperparameters. Traditional optimization techniques, such as grid search or random search, are inefficient and create too much computational cost in handling high-dimensional parameter spaces. In this paper, we present the use of Tree-Structured Parzen Estimator (TPE), a Bayesian probabilistic optimization technique, to optimize hyperparameters for five already well-known machine learning classifiers: Logistic Regression, SVM, Decision Tree, Random Forest, and k-NN. We adopt this approach to the Breast Tissue Dataset as our benchmark dataset to classify various types of breast tissues. We assess our models with respect to four key performance metrics: Accuracy, Precision, Recall, and F1-Score. The experiments show that TPE optimization leads to consistent improvements in classification accuracy for all the models. For precision, recall, and F1-score, significant gains were observed. Besides, TPE improves model generalization by focusing the search on promising regions of the hyperparameter space, reducing the computational cost compared to traditional methods. This work shows the potential of TPE as a powerful tool for hyperparameter optimization in medical machine learning tasks, providing a more efficient and effective alternative to conventional optimization strategies.

**Published in:** 2025 11th International Conference on Communication and Signal Processing (ICCCSP)

**Date of Conference:** 05-07 June 2025 **DOI:** 10.1109/ICCCSP64183.2025.11088705

**Date Added to IEEE Xplore:** 29 July 2025 **Publisher:** IEEE

**ISBN Information:** **Conference Location:** Melmaruvathur, India

**ISSN Information:**

# Faculty Paper Publications

**Dr. R. Ramya**, from the Department of Artificial Intelligence and Data Science, St. Joseph's College of Engineering, has successfully published a research paper titled **"A Novel Intrusion Detection System: Integrating Greedy Sand Cat Swarm Optimization and Dual Attention Graph Convolutional Networks."** This innovative work introduces a new framework for intrusion detection that leverages advanced machine learning techniques to enhance cybersecurity. The study involves comprehensive data collection from BoT-IoT and NSL-KDD datasets, followed by preprocessing, feature selection using the The proposed model achieves an impressive accuracy of 99.08% and precision of 99.19%, outperforming conventional methods and demonstrating its effectiveness in detecting malicious network traffic. This publication marks a significant contribution to improving intrusion detection systems and advancing research in cybersecurity. The paper was published in **International Journal of System Assurance Engineering and Management (Springer)** and accepted on 22 June 2025.

Int J Syst Assur Eng Manag  
<https://doi.org/10.1007/s13198-025-02874-6>



ORIGINAL ARTICLE

## A novel intrusion detection system: integrating greedy sand cat swarm optimization and dual attention graph convolutional networks

M. Prabu<sup>1</sup> · L. Sasikala<sup>1,2</sup> · S. Suresh<sup>1</sup> · R. Ramya<sup>3</sup>

Received: 23 October 2024 / Accepted: 22 June 2025  
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**Abstract** The rise of smart devices and network vulnerabilities has led to a surge in cyber-attacks. Detecting and classifying malicious traffic is vital for system security. This paper proposes a novel framework for intrusion detection using advanced machine learning techniques to improve cybersecurity. The framework initiates comprehensive data collection from the BoT-IoT and NSL-KDD datasets, followed by rigorous data pre-processing steps including normalization, label encoding, and outlier identification. Feature extraction is performed to capture key characteristics of the data, and dimensionality minimization techniques are applied to improve computational efficiency. A feature selection process is executed using the Greedy Sand Cat Swarm Optimization algorithm that identifies the most informative features for analysis. These features are then processed by a Dual Attention Graph Convolutional Neural Network, designed to reveal complex patterns in network traffic data. The framework outperforms traditional methods with the accuracy and precision of 99.19% 99.08% respectively. Overall, these findings highlight that the classification performance of the proposed model is highly accurate, making a significant contribution to improving intrusion detection and network security.

**Keywords** Cyber attacks · Smart device · Anomaly detection · Dimensionality minimization · Graph convolutional neural network · Greedy sand cat swarm optimization · Network traffic

### 1 Introduction

The Internet of Things (IoT) demonstrates a network of interconnected devices and sensors that enables revolutionary applications in different sectors such as smart homes, agriculture, and healthcare, facilitating seamless connectivity and intelligent decision-making across various industries (Algulyev et al. 2021). Massive data generated by this interconnection of the devices leads to innovation and automation in multiple sectors. Thus the lives of humans are made comfortable and easier with the advent of IoT devices. This rapid diversification and expansion of IoT devices leads to multiple security threats and issues (Ferrag et al. 2024).

These attacks on the IoT networks challenge the privacy and authentication of the user. The confidential sensitive data of the user are erased, stolen modified, and destroyed across the wireless network (Farooq & Khan 2024). IoT cyberattacks differ from local network transmission attacks

# Faculty Paper Publications

The screenshot shows the Web of Science interface for the article "Dynamic Mechanical Analysis of Carbon Fiber Reinforced Polymer Composites". The page includes the following details:

- By:** Prabhu, GA (Prabhu, G. Ashwin); Sudhakar, R (Sudhakar, Rajesh); Sathishkumar, R (Sathishkumar, R.); Leo, GML (Leo, G. M. Lionus); Crispie, BA (Crispie, B. Aarsath); Rahman, AHA (Rahman, A. H. Abdul)
- Source:** Volume: 13 Special Issue: SI DOI: 10.37891/JOPC
- Published:** 2025
- Indexed:** 2025-09-14
- Document Type:** Article
- Abstract:** This study investigates the thermal decomposition and mechanical properties of Fiber-Reinforced Polymer Composites (FRPCs) using Dynamic Mechanical Analysis (DMA). The research focuses on improving the recycling and recovery process of Carbon Fiber-Reinforced Polymers (CFRPs), addressing environmental concerns regarding their disposal. By analyzing the effects of different heating rates (5 degrees C and 10 degrees C per minute) and atmospheric conditions (nitrogen, oxygen, and a combination of both), the study identifies optimal parameters for maximizing fiber retention while effectively degrading the polymer matrix. The experimental procedure involved heating CFRP samples to 420 degrees C in a nitrogen atmosphere, facilitating the decomposition of phenolic resin while maintaining fiber integrity. The most efficient recovery method was found at 540 degrees C under oxygen, where the epoxy resin

Mr. R. Sathishkumar, Assistant Professor, has co-authored and published a research article titled “Dynamic Mechanical Analysis of Carbon Fiber Reinforced Polymer Composites” in Volume 13, Special Issue: SI of an indexed journal, DOI: 10.37891/JOPC. This study explores the thermal decomposition and mechanical properties of Fiber-Reinforced Polymer Composites (FRPCs) using Dynamic Mechanical Analysis (DMA). The research addresses the critical need for recycling and recovery of Carbon Fiber-Reinforced Polymers (CFRPs) while mitigating environmental impact. By investigating different heating rates and atmospheric conditions, the work identifies optimal parameters for maximum fiber retention with minimal polymer matrix degradation. The experiments demonstrated effective decomposition of phenolic resin at 420°C in a nitrogen atmosphere, while preserving fiber integrity. The most efficient recovery was achieved at 540°C under oxygen, leading to optimal epoxy resin breakdown. This research provides valuable insights for sustainable recycling of CFRPs and contributes to advancements in materials engineering. The paper was officially indexed on 14 September 2025 in Web of Science, marking a significant achievement for the author and institution.

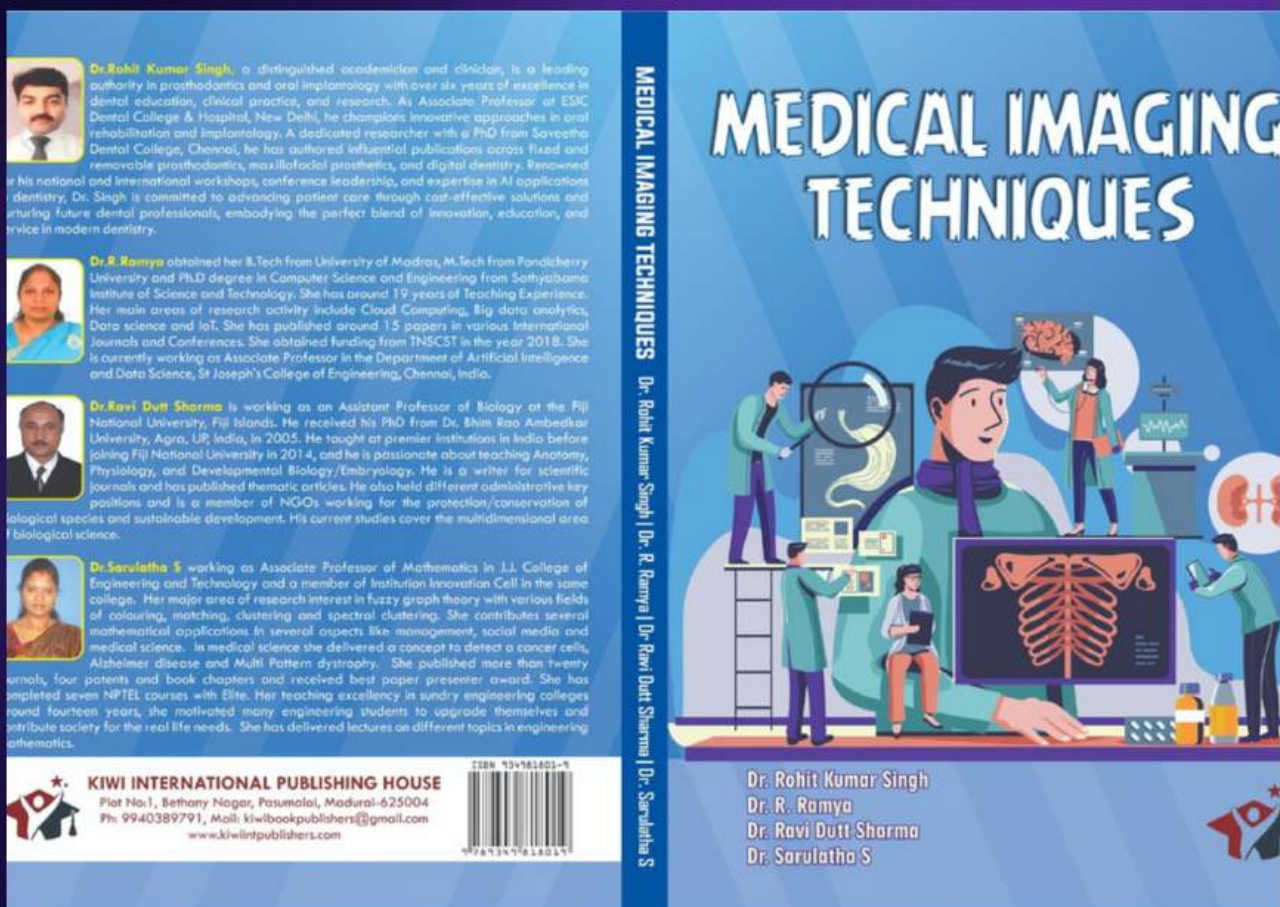
# Faculty Achievement – Reviewer Certificate

Dr. Kotteeswaran R has been recognized with a prestigious **Certificate of Reviewing** from Engineering Applications of Artificial Intelligence, an **Elsevier journal**. This honor was awarded for his valuable contribution in completing five high-quality peer reviews between **September 2024 and September 2025**. His dedication and commitment to maintaining the integrity of published research have been highly appreciated by the journal editors. Through his expert reviews, he played a crucial role in ensuring the accuracy, clarity, and relevance of submitted manuscripts. Peer reviewing is a cornerstone of academic publishing, and this recognition highlights his active participation in advancing knowledge in the field of artificial intelligence and engineering applications. It demonstrates his willingness to support fellow researchers by providing constructive feedback. By sharing his expertise, he has strengthened the process of disseminating innovative ideas. This milestone stands as a testament to his academic credibility. The editors of the journal expressed their gratitude for his professional contribution. This recognition marks a proud moment in his research journey and sets a benchmark for others to follow.



# Faculty Achievement – Book Publication

**Dr. R. Ramya**, Associate Professor in the Department of Artificial Intelligence and Data Science at St. Joseph's College of Engineering, Chennai, has recently published a book titled **"Medical Imaging Techniques."** The book, published in July 2025 with ISBN 978-93-49818-01-9, provides an in-depth exploration of modern medical imaging technologies and their applications in healthcare. It serves as a comprehensive resource for students, researchers, and professionals, covering fundamental concepts, advanced imaging modalities, and the role of artificial intelligence in diagnostics. Through this publication, Dr. Ramya continues her mission of bridging cutting-edge technology with practical healthcare applications. This work stands as a valuable contribution to the academic community, offering a strong foundation for those interested in pursuing research or careers in medical imaging, data-driven diagnostics, and AI-powered healthcare innovations.



# Faculty Achievement – Patent Publication



Dr. R. Baghia Laxmi, Associate Professor in the Department of Artificial Intelligence and Data Science at St. Joseph's College of Engineering (Autonomous), has recently published a patent titled “A Deep Learning Approach to IoT Security: Detecting and Preventing Cyber Threats.” This groundbreaking invention introduces an AI-powered cybersecurity system tailored for Internet of Things (IoT) environments. It leverages deep learning models such as CNNs, RNNs, and Autoencoders to analyze device behavior, monitor network traffic, and detect anomalies in real time. Unlike traditional rule-based approaches, the system is adaptive, self-learning, and capable of context-aware threat analysis. It supports deployment on edge, fog, and cloud environments, ensuring scalability and low latency. The invention integrates explainable AI techniques, privacy-preserving frameworks, and automated incident response mechanisms to strengthen threat mitigation. **Published on 19th September 2025**, this patent reflects Dr. R. Baghia Laxmi's contribution to advancing IoT security research and highlights the importance of AI-driven solutions for safeguarding complex, connected infrastructures.

# Faculty Achievement – Patent Publication

Dr. B. Senthil Kumar, Associate Professor St. Joseph's College of Engineering, Chennai, Tamil Nadu, has successfully presented a patent titled "A System and Method for Multi-Spectral Image Fusion to Enhance Scene Understanding Using Adaptive Feature Extraction and Deep Learning." This innovative patent focuses on a system and method for multi-spectral image fusion aimed at enhancing scene understanding across diverse environments. The system intelligently integrates images from multiple spectral sources—such as visible, infrared, and thermal—using a modular pipeline consisting of pattern-specific deep feature extraction, spectral data normalization, and fusion logic. Advanced deep learning models are employed to process the data and produce a fused output with superior scene clarity and reliability. The invention addresses limitations of traditional image fusion techniques by offering improved spatial and spectral fidelity, robustness against noise, and real-time performance suitability. The system is scalable, deployable on edge or cloud platforms, and adaptable to applications involving autonomous navigation, object detection, medical imaging, and smart surveillance systems. This patent highlights Dr. Senthil Kumar's contribution to advancing research in the field of image processing and intelligent vision systems, marking a significant milestone in applied deep learning and computer vision.



# Faculty Achievement – Patent Publication

(1) PATENT APPLICATION PUBLICATION	(11) Application No. 20254107811 A
(12) INDA	
(13) Date of Filing of Application: 22/08/2025	(14) Publication Date: 19/09/2025
(15) Title of the Invention: Quantum Computing Algorithms for Solving Large-Scale Optimization Problems.	
(16) International classification	(17) Name of Applicant :
(18) International Application No.	(18) Inventor :
(19) International Publication No.	(19) Name of Inventor :
(20) Filing Date	(20) Name of Applicant :
(21) Filing Date	(21) Name of Applicant :
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**Kaviarasi J**, Assistant Professor in the Department of Artificial Intelligence and Data Science at St. Joseph's College of Engineering, has recently published a patent titled **"Quantum Computing Algorithms for Solving Large-Scale Optimization Problems."** This patent introduces a hybrid quantum-classical optimization system designed to solve large-scale optimization problems that often challenge conventional classical methods. The system integrates quantum processing units with classical processors through a coordinated interface to manage iterative optimization processes effectively. It employs intelligent parameter initialization, problem-specific heuristics, and adaptive circuit depth management to maintain solution quality and reduce computational complexity. The invention also overcomes the limitations of existing quantum algorithms by ensuring real-world constraints and feasibility requirements are satisfied. Built-in noise mitigation enhances reliability, enabling results comparable to or better than classical solvers in significantly less time. **Published on 19th September 2025**, this patent demonstrates the potential of quantum computing to transform optimization tasks across industries such as finance, supply chain, energy, and machine learning, while enabling broad adoption without dedicated quantum hardware.

# Faculty Achievement – Patent Publication

Mr. Senthil Kumar D, Assistant Professor in the Department of Artificial Intelligence and Data Science at St. Joseph's College of Engineering, has successfully published a patent titled "AI-Enabled IoT Smart Sensor Network for Real-Time Air Quality Monitoring, Early Pollution Detection, and Source Prevention." This innovation proposes a next-generation environmental monitoring framework for continuous environmental monitoring through an intelligent IoT-based sensor network. The system is designed to detect pollution sources early, provide real-time data analysis, and implement preventive measures before significant environmental damage occurs. It integrates multiple sensors with advanced AI algorithms to ensure precise data collection, automatic anomaly detection, and rapid decision-making. By leveraging machine learning techniques, the model improves over time, offering more accurate predictions and enhanced response strategies. The approach also reduces manual intervention by automating source identification and notifying relevant authorities instantly. Published on 5th September 2025, this patent highlights Mr. Senthil Kumar's commitment to sustainable technology solutions and showcases how AI-powered IoT systems can transform environmental protection and public health initiatives for smarter, cleaner cities.



# Faculty Achievement – Patent Publication

Mr. Senthil Kumar D, Assistant Professor in the Department of Artificial Intelligence and Data Science at St. Joseph's College of Engineering, has recently published a patent titled “Machine Learning and IoT-Based Intelligent System for Defect Detection and Quality Assurance in Supply Chain Management.” This invention introduces a sophisticated approach to improving supply chain reliability by integrating IoT-enabled monitoring devices with machine learning models. The system is designed to detect defects in real time, predict potential failures, and ensure quality compliance throughout the supply chain process. By leveraging advanced analytics, it provides actionable insights for early intervention, minimizing wastage and operational downtime. The proposed solution automates inspection tasks, reduces manual errors, and enhances overall production efficiency. Over time, the system learns from historical data, improving its accuracy and adaptability to different manufacturing environments. Published on **29th August 2025**, this patent demonstrates Mr. Senthil Kumar's dedication to driving innovation in industrial automation and quality management, showcasing how AI and IoT can transform modern supply chain systems for better performance and sustainability.

(12) PATENT APPLICATION PUBLICATION	(21) Application No.202541077899 A
(18) INDIA	
(22) Date of filing of Application :15/08/2025	(43) Publication Date : 29/08/2025
(54) Title of the invention : MACHINE LEARNING AND IOT-BASED INTELLIGENT SYSTEM FOR DEFECT DETECTION AND QUALITY ASSURANCE IN SUPPLY CHAIN MANAGEMENT	
(51) International classification	(71) Name of Applicant : IISr. Deepthi Sureshbabu Address of Applicant :Assistant Professor, Department of Business Management, Amrita Degree & PG College 56-11-741 BVA, Monasteraugh, Dikshabhaga, Hyderabad 50008. Hyderabad IIAshokk Singh Chakravar IISri Hari Krishna Venant IIRamksh V S IISr. Hirendra Singh IISr. Thangavel IISubasree B IISenthil Kumar D IISri Suresh Kumar Shama S IISr.Chelana T V IISr. T Rajeswary IISr Abdul Ajan Name of Applicant : NA Address of Applicant : NA (72) Name of Inventor : IISr. Deepthi Sureshbabu Address of Applicant :Assistant Professor, Department of Business Management, Amrita Degree & PG College 56-11-741 BVA, Monasteraugh, Dikshabhaga, Hyderabad 50008. Hyderabad IIAshokk Singh Chakravar Address of Applicant :Research Scholar, Faculty of Management, Barkatullah University, Bhopal, Madhya Pradesh, India 462018 Bhopal IISri Hari Krishna Venant Address of Applicant :Enterprise Performance, Elyon, Houston Texas, USA IIRamksh V S Address of Applicant :Assistant Professor, Department of Mechatronics Engineering, SJS College of Technology, Coimbatore 641033 Coimbatore IISr. Hirendra Singh Address of Applicant :Assistant Professor, Department of Electrical Engineering, VIT, Vellore, Tamil Nadu, India 620017 Vellore IISr. Thangavel Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, JSS Institute of Engineering and Technology, Mysore 577002 Mysore IISubasree B Address of Applicant :Assistant professor Department of MCA,Devaraj Urs Academy of Technology and Management,Bangalore 560082 Bangalore IISenthil Kumar D Address of Applicant :Assistant Professor, Department of Artificial Intelligence and Data Science, St. Joseph's College of Engineering, Chennai - 600119 Chennai IISri Suresh Kumar Shama S Address of Applicant :Head of Operation, Swiss school of Management,Bangalore, 560094 Bangalore IISr.Chelana T V Address of Applicant :Assistant professor, Department of AML, BANGALORE Technological Institute Bangalore IISr. T Rajeswary Address of Applicant :Assistant Professor, Department of Science and Humanities, Hindustan College of Engineering and Technology, Coimbatore 641033 Coimbatore IISr Abdul Ajan Address of Applicant :Assistant Professor of English, Jssat Mechanical College (Autonomous), Taluk - 08, Taluk
(86) International Application No	:NA
(87) International Publication No	:NA
(81) Patent of Addition to Application Number	:NA
(82) Divisional to Application Number	:NA
(57) Abstract :	Machine Learning and IoT-Based Intelligent System for Defect Detection and Quality Assurance in Supply Chain Management is the proposed invention. The proposed invention focuses on understanding the functions of Supply Chain Management. The invention focuses on analyzing the parameters of Intelligent System for Defect Detection and Quality Assurance using algorithms of IoT Approach.
No. of Pages : 14 No. of Claims : 4	
The Patent Office Journal No. 35/2025 Dated 29/08/2025	
83331	

# Staff Achievements

## Dr. R Kotteeswaran

Dr. R Kotteeswaran, Associate Professor, has successfully participated and completed the AICTE Training and Learning (ATAL) Academy Faculty Development Programme on “Emerging Trends in Artificial Intelligence for Smart Innovation and Sustainable Technologies in Industry 4.0”. The FDP was organized by P.D.A. College of Engineering and held from 1st September 2025 to 6th September 2025. This accomplishment reflects his dedication to advancing knowledge in cutting-edge technologies and his commitment to academic excellence. We congratulate him on this achievement and wish him continued success.

## Mrs. D Deepa

Mrs. D Deepa has actively participated and successfully completed the One-Week National Level Faculty Development Programme on “Recent Trends on AI – Text, Vision & Hardware Implementation Models,” organized by the Department of ECE in Panimalar Engineering College in association with STEP – NITK, Surathkal & Pantech Solutions Pvt Ltd. The programme was conducted from 28th August to 2nd September 2025, providing valuable insights into advancements in AI and its practical implementations. We appreciate her dedication to continuous learning and congratulate her on this achievement.



# Staff Achievements

## Dr. R Kotteswaran

Dr. R Kotteswaran, Associate Professor, has successfully participated and completed the AICTE Training and Learning (ATAL) Academy Faculty Development Programme on “**Intelligent Healthcare & Medical System**”. The FDP was organized by Anjuman College of Engineering & Technology and conducted from 25th August 2025 to 30th August 2025. This achievement reflects his dedication to professional development and his commitment to advancing knowledge in the field of Artificial Intelligence and Healthcare Technologies. We congratulate him on this accomplishment and wish him continued success.



## Mrs. Divya J C

Mrs. Divya J C, Assistant Professor, has successfully participated and completed the AICTE Training and Learning (ATAL) Academy Faculty Development Programme on “**Demystifying Transformers: The Brains Behind Generative AI**”. The FDP was organized by Vellore Institute of Technology and conducted from 25th August 2025 to 30th August 2025. This accomplishment demonstrates her commitment to enhancing her expertise in cutting-edge AI technologies and her dedication to continuous professional development. We congratulate her on this achievement and wish her continued success.



# Staff Achievements

## Mrs Kalpana

Mrs. Kalpana, Assistant Professor of St. Joseph's College of Engineering, has successfully participated and completed the AICTE Training and Learning (ATAL) Academy Faculty Development Program on "AI-Driven Solutions for Sustainable Development: A Faculty Development Perspective." The FDP was organized by K. Ramakrishnan College of Engineering and held from 8th September 2025 to 13th September 2025. This accomplishment reflects her dedication to continuous professional growth and her commitment to bringing advanced AI-driven solutions into academic practice. The department congratulates her on this achievement and wishes her continued success in her teaching and research journey.



## Mrs. Kavitha G


Mrs. Kavitha G, Assistant Professor of St. Joseph's College of Engineering, Chennai, has successfully participated and completed the AICTE Training and Learning (ATAL) Academy Faculty Development Programme on "AI-Driven Solutions for Sustainable Development: A Faculty Development Perspective." The FDP was organized by K. Ramakrishnan College of Engineering and conducted from 8th September 2025 to 13th September 2025. This achievement highlights her dedication to professional growth and her efforts to bring advanced AI-driven solutions into the academic and research space. We congratulate her on this accomplishment and wish her continued success in her teaching and research endeavors.



# Staff Achievements in NPTEL

## Dr. L. Sherly Pushpa


Dr. L. Sherly Pushpa Annabel has successfully completed the **NPTEL Online Certification** course on **Business Analytics & Data Mining Modeling using R Part II**. The course was conducted by the **Indian Institute of Technology Roorkee** and funded by the Ministry of Education, Government of India. She secured an **Elite grade** with a consolidated score of 68%. Her performance comprised 22.08/25 in Online Assignments and 46.37/75 in the Proctored Examination. The course duration was four weeks, held from July to August 2025. A total of 229 candidates were certified in this course. This certification was coordinated by Prof. Kaushik Ghosh, IIT Roorkee and Prof. Ranjana Pathania, NPTEL. The course comes under the national initiative SWAYAM and Skill India Mission. This achievement reflects her strong knowledge in Business Analytics and Data Mining using R. The certification also recommends 1 or 2 academic credits, adding further value to her academic and professional profile.




## Elite

# NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**DR L SHERLY PUSHPA ANNABEL**  
 for successfully completing the course




**Business Analytics & Data Mining Modeling using R Part II**

with a consolidated score of **68** %

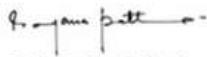
Online Assignments	22.08/25	Proctored Exam	46.37/75
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Total number of candidates certified in this course: **229**




**Prof. Kaushik Ghosh,**  
Professor (Chemistry)  
Coordinator CEC


**Jul-Aug 2025**  
(4 week course)




**Prof. Ranjana Pathania,**  
Professor (BSBE)  
Coordinator (NPTEL)



Indian Institute of Technology Roorkee



Roll No: NPTEL25MG87S333207604


To verify the certificate 

No. of credits recommended: 1 or 2

# Staff Achievements in NPTEL

## Dr M P Rajakumar

Dr M P Rajakumar has been awarded the **NPTEL Elite Certificate** for successfully completing the course **Introduction to Operating Systems**. The course was conducted by the **Indian Institute of Technology, Madras**, under the NPTEL online certification program funded by the MoE, Government of India. The program was held during July to September 2025 and spanned eight weeks. Rajakumar achieved a consolidated score of 67%, with 23.58/25 in online assignments and 43.62/75 in the proctored exam. He secured a position among the **Top 5% performers** in the course. A total of 4040 candidates were certified in this course. The certificate was signed by Prof. Andrew Thangaraj, Chair, Centre for Outreach and Digital Education, IIT Madras, and Prof. Vignesh Muthuvijayan, NPTEL Coordinator, IIT Madras. This achievement highlights his dedication to learning core concepts of Operating Systems. It also demonstrates his strong technical skills and commitment to academic growth.



## Elite


# NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**M P RAJAKUMAR**  
for successfully completing the course  
**Introduction to Operating Systems**  
with a consolidated score of **67** %

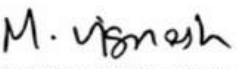
Online Assignments	23.58/25	Proctored Exam	43.62/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **4040**




**Prof. Andrew Thangaraj**  
Chair  
Centre for Outreach and Digital Education, IITM


**Jul-Sep 2025**  
(8 week course)



**Prof. Vignesh Muthuvijayan**  
NPTEL Coordinator  
IIT Madras




Indian Institute of Technology Madras




FREE ONLINE EDUCATION  
**swayam**  
विद्यया ऋतेः, ज्ञानेन मृतोः

Roll No: NPTEL25CS94S433201566



To verify the certificate



No. of credits recommended: 2 or 3



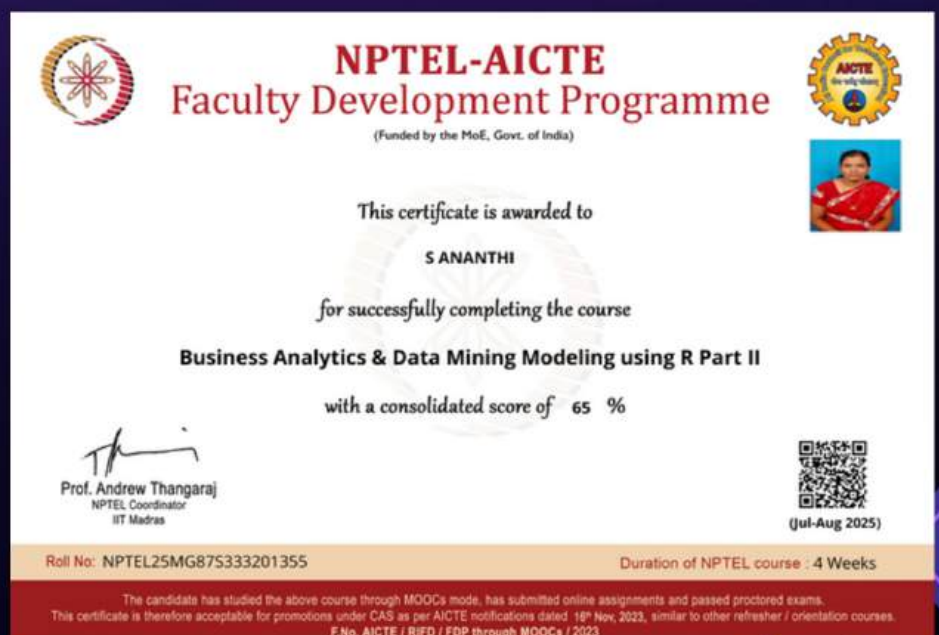
**Skill India**  
कौशल भारत - कुशल भारत

# Staff Achievements in NPTEL

## Ms. S. Ananthi

Ms. S. Ananthi from St. Joseph's College of Engineering has successfully completed the **NPTEL Online Certification** course on **Business Analytics & Data Mining Modeling using R Part II** during Jul–Aug 2025. She earned an **Elite Certificate** with a consolidated score of **65%**, scoring **21.67/25** in online assignments and **43.74/75** in the proctored exam. This course, funded by the Ministry of Education, Government of India, was offered through IIT Roorkee and IIT Madras under the SWAYAM platform. In addition to the elite certification, she was also awarded the **NPTEL-AICTE Faculty Development Programme (FDP) Certificate** for completing the same course. Her successful completion reflects her commitment to continuous learning and enhancing her technical expertise. This achievement not only contributes to her professional growth but also sets an example for peers and colleagues.



# Academic Excellence

The outstanding students of the Department of Artificial Intelligence & Data Science (Batch 2021–2025) at St. Joseph's College of Engineering have been congratulated for securing a remarkable CGPA of 8.5 and above up to the VIII semester. A benchmark of excellence has been set in the department through their consistent hard work, dedication, and academic brilliance. These achievements have been made possible not only by individual commitment but also by the collective efforts of the faculty and the institution in nurturing future innovators. May they continue to shine and inspire!



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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE**  
**Toppers Secured 8.5 CGPA & Above (upto VIII Sem)**  
**Batch 2021 - 2025**

 Sanjana M 312321201045 9.56	 Jenina Angelin D 312321201023 9.39	 Atchaya S 312321201009 9.34	 Sneha S 312321201055 9.32	 Jeevitha M 312321201022 9.22	
 Kishore Harshan Kumar R 312321201029 9.04	 Sharmila L 312321201052 9.02	 DhanushKumar R 312321201012 9.00	 Diviya Sri S 312321201014 8.96	 Kasey Ann Britto 312321201027 8.93	
 Harshini A S 312321201019 8.85	 Thenmozhi N 312321201059 8.81	 Harisudhan S 312321201018 8.79	 Varnikaa D T 312321201060 8.67	 Renuga P 312321201043 8.64	
 Santhosh Kannan S P 312321201048 8.64	 Samyuktha C S 312321201044 8.63	 Priyam Vadhana P 312321201038 8.61	 Sanjiv S 312321201047 8.54	 Deepak S 312321201010 8.52	 Ashfaq Ahamed U 312321201007 8.51

*Congratulations*



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# Academic Excellence

The students of the Department of Artificial Intelligence & Data Science (Batch 2022–2026) at St. Joseph's College of Engineering have been acknowledged for securing an impressive CGPA of 8.5 and above up to the VI semester. This achievement has been made possible through consistent effort, determination, and a drive for academic success.

Their performance stands as a reflection of the quality education and strong mentorship provided by the department and the institution. These young achievers have truly set a high standard of excellence and continue to inspire their peers.

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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE**  
**Toppers Secured 8.5 CGPA & Above (upto VI Sem)**  
**Batch 2022 - 2026**

 Prithvi A.L. 312322201120 8.87	 Abhinava K.R. 312322201099 8.86	 Kaniga M. 312322201079 8.86	 Bhavana S. 312322201027 8.83	 Veluchi S. 312322201082 8.81	 Nithyaarati S.K. 312322201115 8.80
 Maria Lópezin J. 312322201096 8.79	 Vanias Irene A. 312322201188 8.79	 Pugazhendhi S. 312322201124 8.78	 Shakthiwa S. 312322201148 8.76	 Claris Tasha J.K. 312322201029 8.73	 Sarangi M. 312322201065 8.73
 Saranya V.T. 312322201078 8.73	 Kavya V. 312322201082 8.73	 Rajathree R. 312322201126 8.72	 Shriyaa Janet Albert Sahayadevam 312322201151 8.72	 Surendhan A. 312322201169 8.70	 Sarthika K.P. 312322201146 8.68
 Lakha P. 312322201082 8.68	 Ekakhya B. 312322201041 8.65	 Anithya P. 312322201082 8.65	 Tamilwanan T. 312322201172 8.65	 Venkatesh P. 312322201181 8.64	 Shruti S. 312322201156 8.63
 Divya Shree L. 312322201038 8.58	 Griffin C. 312322201045 8.58	 Anshree P. 312322201017 8.56	 Priyadarshan B. 312322201183 8.56	 Mohammed P. 312322201100 8.54	 Jella Feena D. 312322201049 8.54
 Sarthik G. 312322201144 8.52	 Lathiyaprasa S. 312322201148 8.52	 Divit P. 312322201048 8.51	 Pranav J. 312322201118 8.51		

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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE**  
**Toppers Secured 8.5 CGPA & Above (upto VI Sem)**  
**Batch 2022 - 2026**

 Hamsa Vardhini M. 312322201052 9.50	 Sree Gayathri S. 312322201162 9.48	 Shree Nithi R.J. 312322201154 9.31	 Samyuktha V. 312322201138 9.20	 Dharunika B. 312322201037 9.12
 Parshveela N.G. 312322201117 9.09	 Dhaksin S. 312322201035 9.07	 Yogashini L.K. 312322201192 9.07	 Divilin Sweety D.S. 312322201039 9.05	 Kripaasree S. 312322201088 9.05
 Sankari K. 312322201140 9.03	 Claris Pery P. 312322201028 9.03	 Anjeli Catherine M. 312322201019 8.99	 Harshini M. 312322201056 8.97	 Sowmia V. 312322201161 8.97
 Akshaya Shree J.V. 312322201015 8.95	 Jeeva Bharathi S. 312322201068 8.95	 Deborah Roopavathi S. 312322201030 8.95	 Malavika S.P. 312322201095 8.95	 Bishika P. 312322201131 8.90
 Sharon Elizabeth S. 312322201150 8.90	 Nandhini D. 312322201110 8.89	 Shruthi Merine S. 312322201155 8.88	 Deepika M. 312322201031 8.88	 Devadharshini K. 312322201051 8.88

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# Academic Excellence

The students of the Department of Artificial Intelligence & Data Science (Batch 2023–2027) at St. Joseph's College of Engineering have been commended for achieving a CGPA of 8.5 and above up to the IV semester. This accomplishment has been made possible through their dedication, persistence, and academic discipline.

The recognition stands as a reflection of their strong foundational knowledge and the academic environment fostered by the institution. These emerging talents are setting the stage for future success and continue to uphold the department's standards of excellence.

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**Department of Artificial Intelligence & Data Science**

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**II Year (2023 - 2027)**

31232243098 MINHAL KODI G 9.48	31232243054 INDUJA A 9.41	31232243091 ANCY S K SITHANY 9.40	31232243106 NANDHIKA A 9.36	31232243078 KESHAV SRINIVAS M 9.26	31232243032 DHARSHU R 9.18
31232243010 ANCY ANTHONY A L 9.16	31232243113 NITHYASRI S 9.15	31232243100 RISHI SOUNDIRA S 9.07	31232243073 JOVITA S 9.02	31232243133 REKHMA S 8.98	31232243086 LIMBA FATHIMA A 8.90
31232243102 MONIKA B 8.90	31232243028 DEVADHARSHINI G 8.87	31232243062 JEEVARAJ S 8.87	31232243155 SHALIMA NT 8.85	31232243037 DINESH BABU H 8.84	31232243168 SRILAKSHMI K 8.84
31232243157 SHANMUGAPRIYA M 8.83	31232243084 LAHSHIMANAN S 8.82	31232243025 DEEPA DHARSHINI M 8.80	31232243042 DURKESH P 8.80	31232243132 RESHMA P 8.80	31232243007 AJAY RAMASWAMY 8.79
31232243028 DIVYA H C 8.77	31232243153 SHAHANA M S 8.76	31232243191 YUVAN SHANKAR G 8.74	31232243071 JOSE ANFER B 8.73	31232243186 VISHWA R 8.73	31232243017 ASWIN P 8.72

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**Department of Artificial Intelligence & Data Science**

**Toppers Secured 8.5 CGPA & Above (upto IV Sem)**  
**II Year (2023 - 2027)**

31232243049 HARIVASAN S 8.72	31232243183 SANYUKTHA V 8.72	31232243067 JOEL PAUL SWETHAN A 8.71	31232243092 MAHARISHI U 8.71	31232243013 APARNA S 8.70	31232243099 NITHYA R M 8.69
31232243031 DHARANI S 8.68	31232243069 JOLLY D 8.66	31232243009 AMALROJA F 8.63	31232243210 NAVANYA S H 8.63	31232243002 ABINASHI R 8.62	31232243134 REYA JOSEPHINE H 8.62
31232243048 HARINIVATHA S 8.61	31232243051 HARSHINI S 8.60	31232243148 SARANYA P 8.58	31232243159 SHARON HANNA 8.58	31232243014 ARINDAN S 8.57	31232243043 ERIC JEEVAN A 8.54
31232243036 DIVYA BHARATH P 8.52	31232243103 MONISH K J 8.52				

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Visit our Website: <https://stjosephs.ac.in/DW/ADS/index.html>

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