



Jyothi Engineering College

Reaccredited with **N A C** (Grade A) and **NBA** Programmes*

Approved by AICTE and Affiliated to APJ Abdul Kalam Technological University

A CENTRE OF EXCELLENCE IN SCIENCE AND TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRICHUR

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*NBA reaccredited BTech Programmes in Civil Engineering, Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering and Mechanical Engineering valid till 2025

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE NEWSLETTER

VISION

CREATING ETHICAL LEADERS

THROUGH QUALITY

PROFESSIONAL EDUCATION WITH EMPHASIS ON
HOLISTIC EXCELLENCE

CORE VALUES

FAITH IN GOD AND MAN

LOVE OF FELLOW BEINGS

BELIEF IN UNIVERSAL CITIZENSHIP

MORAL INTEGRITY

SOCIAL COMMITMENT.

MISSION

TO EMERGE AS AN INSTITUTION PAR EXCELLENCE OF GLOBAL STANDARDS BY IMPARTING QUALITY ENGINEERING AND OTHER PROFESSIONAL PROGRAMMES WITH STATE-OF- THE-ART FACILITIES.

TO EQUIP THE STUDENTS WITH APPROPRIATE SKILLS FOR A MEANINGFUL CAREER IN THE GLOBAL SCENARIO.

TO INCULCATE ETHICAL VALUES AMONG STUDENTS AND IGNITE THEIR PASSION FOR HOLISTIC EXCELLENCE THROUGH SOCIAL INITIATIVES.

TO PARTICIPATE IN THE DEVELOPMENT OF SOCIETY THROUGH TECHNOLOGY INCUBATION, ENTREPRENEURSHIP AND INDUSTRY INTERACTION.

DEPARTMENT MISSION

Strengthening basic competencies in the domains of Artificial Intelligence and Data Science. Providing high-quality, value-based technical education and developing technology professionals with creative ideas and compelling leadership abilities. Using logical thinking to create and develop cutting-edge products in collaboration with industry stakeholders in order to meet global expectations and requirements. Enabling graduates to adapt to new technologies via strong fundamentals and lifetime learning .

DEPARTMENT VISION

Creating ethical leaders in the domain of Artificial intelligence and data Science through effectual teaching and learning process to develop emerging technology solutions for the benefits of industry and society with a focus on holistic learning and excellence.

EDITORIAL BOARD

STAFF EDITOR: RENI JOSE

STUDENT EDITOR: NAVEEN WILSON

DEPT OF ARTIFICIAL INTELLIGENCE AND
DATA SCIENCE

PROGRAMME EDUCATIONAL OBJECTIVES

Graduates will demonstrate comprehensive expertise in Artificial Intelligence, Machine Learning, and Data Analysis, and apply interdisciplinary knowledge in Computer Science, Statistics, and Advanced Mathematics to address real-world challenges.

Graduates will innovate and create impactful solutions ethically, contributing to societal betterment, leveraging their leadership, collaboration, and communication skills for effective teamwork and multidisciplinary endeavors.

Continuously fostering a culture of lifelong learning, graduates will adapt to evolving technological landscapes, demonstrating adaptability and a commitment to ongoing professional development in the dynamic field of AI and Data Science.

PROGRAMME SPECIFIC OUTCOMES

Graduates will be able to apply core principles of Science, Engineering, and Mathematics to develop AI-driven solutions for real-world challenges.

Graduates will design, develop, and implement efficient as well as scalable algorithms using programming languages, data structures, and cloud computing technologies.

Graduates will integrate ethical, social, and security considerations while developing AI-driven intelligent systems, ensuring responsible AI deployment.

A Note from the HoD...

BINEESH M(HoD)



It is with great pleasure that I welcome you all to Issue 03 of the Artificial Intelligence and Data Science (AI & DS) Department Newsletter. This edition reflects the academic vibrance, innovation, and collaborative spirit that continue to shape our department as we move forward in a rapidly evolving technological landscape.

This issue highlights a series of impactful initiatives that enriched our students' learning experience. The department conducted Workshops and LaTeX sessions that strengthened students' academic writing and documentation skills. As part of Tharang 2023 2.0, the department presented VR-CADE, an exciting virtual reality gaming experience that drew enthusiastic participation from students and visitors. An online lecture on Reinforcement Learning offered valuable exposure to emerging research areas and practical applications. Another major milestone was the inauguration of AIDA, accompanied by a technical session on RPA (UiPath) that provided insights into automation workflows and industry trends.

Together, these programs reflect our commitment to practical learning, research growth, and industry readiness. As we look ahead, we remain dedicated to nurturing curiosity, innovation, and ethical responsibility. Let us move forward together toward new achievements and opportunities.

Student Spotlight

NAVEEN WILSON(STUDENT EDITOR)



It is with great pride that I present Issue 03 of our AI & DS Department Newsletter. This edition captures our department's progress in innovation, skill development, and academic excellence as we prepare students for a rapidly evolving technological world.

This issue highlights key initiatives such as the AI/Metaverse Workshop with STEM.org certification, a LaTeX training session through the NDLI Club, and VR-CADE—our interactive VR gaming showcase during Tharang 2023 2.0. An online session on Reinforcement Learning and the inauguration of the Artificial Intelligence and Data Science Association (AIDA), along with a technical session on RPA (UiPath), further strengthened student engagement and industry readiness.

Our students also excelled beyond academics through participation in national hackathons, recognition in AI-based sustainability competitions, involvement in cybersecurity and ethical hacking workshops, and successful completion of NPTEL certifications.

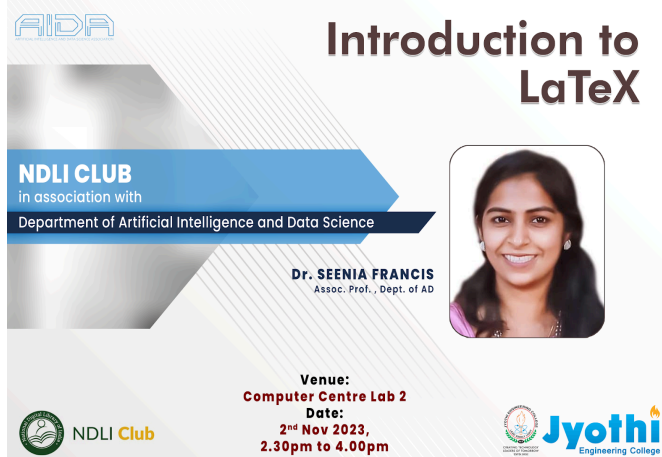
These achievements reflect our commitment to hands-on learning, ethical AI practices, and professional growth. I extend my appreciation to all contributors and encourage everyone to continue learning, innovating, and leading in the field of Artificial Intelligence and Data Science.

DEPARTMENT HIGHLIGHTS

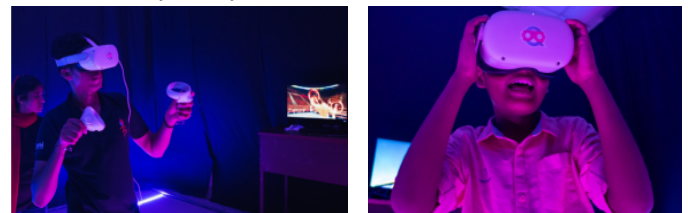
Jyothi Engineering College's Department of Artificial Intelligence and Data Science hosted an AI/Metaverse Workshop on October 28, 2023 at the Decennial Hall from 9:30 AM to 12:30 PM. The session was led by Akhila R Gomez, Head of Academic Innovations at Unique World Robotics, and it provided STEM.org certification.



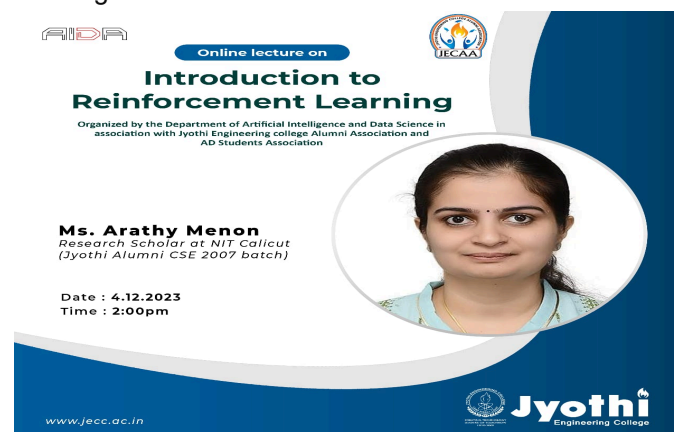
The NDLI Club, in association with the Department of Artificial Intelligence and Data Science at Jyothi Engineering College, organized an "Introduction to LaTeX" session led by Dr. Seenia Francis. The workshop provided students with essential LaTeX skills for academic writing and was held on 2nd November 2023 from 2:30 PM to 4:00 PM at Computer Centre Lab 2.



The Department of Artificial Intelligence and Data Science at Jyothi Engineering College presented "VR-CADE," an immersive VR gaming experience. With the theme "Game On! Where Reality Meets Pixels," the event showcased cutting-edge virtual reality gameplay and interactive environments. Held as part of Tharang 2023 2.0 on November 10 and 11, the event drew enthusiastic participation from students and visitors.



The Department of Artificial Intelligence and Data Science, in association with the Jyothi Engineering College Alumni Association and the AD Students Association, conducted an online lecture on Introduction to Reinforcement Learning. The session was led by Ms. Arathy Menon, Research Scholar at NIT Calicut and alumna of the 2007 CSE batch of Jyothi Engineering College. Held on 4 December 2023 at 2:00 PM, the lecture provided participants with valuable insights into the fundamentals and applications of reinforcement learning.



The Department of Artificial Intelligence and Data Science inaugurated the Artificial Intelligence and Data Science Association (AIDA) on 8 December, 2023 at the Decennial Hall, marking a significant milestone for the department. As part of the event, Mr. Rahul Unnikrishnan, RPA Specialist at Tech Mahindra, delivered a technical talk on RPA (UiPath), offering valuable insights into automation workflows. The session was informative and well received, making the inauguration both engaging and impactful.



STUDENT ACHIEVEMENTS

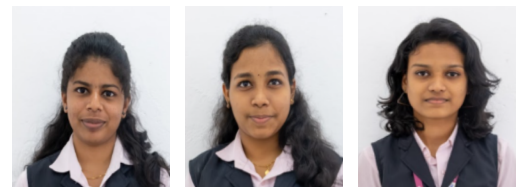
Avanthika from S7 participated in the 24-hour national hackathon **CodeX'23**, organized as part of **SWASTHIKA'23**



Bimal Roy and Sandra M of S7 were selected among the top 15 finalists of the 'AI Hackathon for Plastic-Free Rivers' conducted by **REVA University** in collaboration with Kyndryl, Bengaluru.



Vinaya A, Varsha I. K., and Ranjini K of S7 attended a **workshop on Cybersecurity and Ethical Hacking** organized by **Technaghi**.



John Davis, Reshma K. R., and Sachin Raj of S5 earned **Elite certificates** for the NPTEL course '**Introduction to Machine Learning**' offered by IIT Kharagpur."



PLACEMENTS

Akarsh K Das, Akash V A, Aliya Siraj, Ardra M A, Bimal Roy, Josten S Cheeran, and Nikhitha Joy of S7 AD were placed at UST, marking an important milestone in their career journey and reflecting the department's strong industry readiness and student excellence.



Ebin C Zeby was placed at Mitsogo Technologies Pvt. Ltd., marking a proud achievement for the department and showcasing his strong technical skills and professionalism.



UNIVERSITY RESULT TOPPERS

In S2 university exams, AD toppers are Liya M (9.45) , Krishnendu U N (9.43), Prithvishankar Menon(9.38)



In S4 university exams, AD toppers are Aparna Joseph (8.95), Sachin Raj M (8.23), John Davis (8.27)



In S6 university exams, AD toppers are Chandhini T S (9.26), Femi Rosh(8.91), Ardhra M A (8.93), Divya Pillai(8.55)



FACULTY ACHIEVEMENTS

Dr. Anoop V published a paper on “ Automated biomedical image classification using multi-scale dense dilated semi- supervised u-net with cnn architecture”



Parvathy Jyothi earned an **Elite+Silver** certificate for the NPTEL course *Introduction to Machine Learning* offered by IIT Kharagpur, while **Anjali O** attended the **Faculty Development Program (FDP)** on *Blockchain and Security in Computing* held from **August 14 to August 19, 2023**, organized by the Department of Computer Science and Engineering, Sree Narayana Gurukulam College of Engineering.



Bineesh M attended the Faculty Development Program (FDP) on *Outcome Based Education and Essential AI Tools for Teachers* from **August 10–18, 2023**, while **Seenia Francis** participated in the *Workshop and FDP on Natural Language Processing – Foundation* from **August 7–12, 2023**.

