



Sri Sharada Peetham, Sringeri
Jyothy Charitable Trust

AI THINKLET

2023-24 (FEB-JUL)

DEPARTMENT OF
**ARTIFICIAL INTELLIGENCE
& MACHINE LEARNING**



INFORMATION. INNOVATION. INSPIRATION

VISION

To transform students into responsible citizens and competent professional by creating environment conductivity to disseminate the knowledge in area of artificial intelligence and machine learning

MISSION

M1: To provide an environment that fosters innovation, creativity, and team spirit.

M2 : To cultivate a culture of high professional ethics, integrity, and transparency.

M3: To impart quality education and promote cutting-edge research in the field of Artificial Intelligence and Machine Learning.

M4: To develop professionals with strong leadership qualities capable of delivering sustainable solutions to global challenges.

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Dr. Madhu B R
Professor and Head

Message from the HOD

I am extremely happy that THINKLET 2024–25 (September - January) is being released. The magazine is a means for students and faculty to exhibit their creative skills. It provides a vibrant platform for sharing their technical knowledge and innovative ideas. The faculty of the department leaves no stone unturned in nurturing the students to express themselves within and outside of their classes.

The department's endeavors produce confident professionals, tuned to a real-time working environment. Students actively team up with the faculty to work on collaborative projects, from which they tend to imbibe the required skills and benefit a lot from their understanding of current opportunities and challenges while developing new technologies within the realm of information science. The magazine serves as a testament to their dedication and passion for learning, fostering an environment where curiosity thrives. It not only showcases academic excellence but also highlights the department's commitment to holistic development, encouraging students to explore, innovate, and push the boundaries of knowledge.

EDITOR'S NOTE



Mrs. Deepti Das V
Assistant Professor

Dear Readers,

It is with great pride and excitement that I present to you this edition of our Department of AIML Magazine. This magazine stands as a reflection of our department's vision—where innovation meets execution, learning meets impact, and ideas evolve into real-world solutions.

Information Science & Engineering is not just a discipline—it is the foundation of the technologies shaping today's world. From intelligent systems and data-driven decisions to cybersecurity, software engineering, and emerging innovations, our department continues to inspire a culture of curiosity, creativity, and excellence.

This edition captures the collective efforts of our students and faculty—highlighting academic brilliance, technical achievements, research contributions, projects, events, and the vibrant departmental spirit that binds us together. Every article represents a step forward in our journey of growth, discovery, and transformation.

I extend my sincere gratitude to our faculty members, contributors, and the entire editorial team whose dedication and hard work have made this magazine possible. Their commitment has helped shape a publication that truly represents the identity and ambitions of our department.

With warm regards,
Mrs. Deepti Das V
Assistant Professor
Editor | Department of AIML
Jyothy Institute of Technology

Teaching Faculty

NAME	DESIGNATION	QUALIFICATION
Dr. Madhu B R	Professor and Head	Ph.D
Dr. Manjunath H R	Associate Professor	Ph.D
Dr. Soumya K N	Associate Professor	Ph.D
Mrs. Ramya B N	Assistant Professor	M.Tech
Mr. S Vinodh Kumar	Assistant Professor	M.Tech., (Ph.D)
Mr.Praveen R	Assistant Professor	M.Tech., (Ph.D)
Mrs. Archana V R	Assistant Professor	M.Tech
Mrs. Deepti Das V	Assistant Professor	M.Tech

Non Teaching Faculty

NAME	DESIGNATION
Ms. Meghana C M	Second Divisional Clerk

VISION

To transform students into responsible citizens and competent professionals by creating environment conducive to disseminate the knowledge in the area of Artificial Intelligence and Machine Learning.

MISSION

M1: To provide an environment suitable to innovation, creativity and team-spirit.

M2: To practice and promote high standards of professional ethics and transparency.

M3: To impart quality education to the students and promote research in the field of Artificial Intelligence and Machine Learning.

M4: To create professionals with leadership qualities to provide sustainable solutions to address global problems

FACULTY CERTIFICATIONS

- Prof. Ushasri Gunti was awarded a certificate for successfully completing the 6- days faculty development programme on “Python Machine Learning” organized by Mevi Technologies LLP, Bangalore, in association with R. R. Institute of Technology, Bangalore on 11th June, 2024.
- Prof. S Vinodh Kumar participated in the 10 Hours National Faculty Development Program on “Deep Learning and Artificial Intelligence”, organized by Andhra Pradesh State Skill Development Corporation (APSSDC) in collaboration with ExcelR Edtech Pvt. Ltd. Date: 26th February to 1st March 2024.
- Prof. Deepthi Das V has participated in the Faculty Development Programme on “Exploring Neural Networks and Advanced NLP Techniques” from 15th to 19th April, 2024, organized by the Department of Computer Science and Engineering (AI&ML), Nagarjuna College of Engineering and Technology, Bengaluru.
- Prof. Deepthi Das V has participated in the Five Day Faculty Development Program on “Full Stack Development” conducted from 22nd to 26th April 2024, organized by the Department of Information Science and Engineering, Bangalore Institute of Technology, Bengaluru.

FACULTY PUBLICATIONS

- Prof. Madhu B R published a paper titled “Cognitive Object Detection: A DeepLearning Approach with Auditory Feedback” co-authored by S Pooja, ASS Urs,VB Raj, BR Madhu, and V Kumar in the 2024 IEEE International Conference forWomen in Innovation, Technology 2024.
- Prof. Ramya B N published a paper titled “A Multilingual Model for TextGeneration of Visuals”, co-authored by BanuShree T, Greeshma P M, Pallavi KG, and Pranitha T Manur, in the Journal of Emerging Technology andInnovative Research, Vol 11, Issue 5, 2024.
- Prof. Soumya K N published a paper titled “Pneumonia Detection in Chest X-rays Using a Novel Model: ViT (Vision Transformers)” co-authored by Pavithra Kumar D, Koushik S M, Madhu H S and Srishan S.
- Prof. Soumya K N published a paper titled “CCTV Video Storage Optimization:Motion-Based Frame Removal for Efficiency” co-authored by Deepak P,Vaishnavi B S, Yukthi A and Hitesh S M.
- Prof. Deepthi Das V and Prof. Archana V R published a paper titled“Complementary Fashion Recommendation Using Compatible Modelling” co-authored by Shruthi S K, Shwetha S K, Adithi Shankar and Kruthika R.
- Prof. Archana V R and Prof. Deepthi Das V published a paper titled “PriceProbe: E-Commerce Platforms Using Machine Learning”, co-authored byVaibhavi B Raj, A S Sushmitha Urs, Abhishek Kumar Pandey, and Jagruthi G.

CONFERENCE/WORKSHOP/FDP ATTENDED BY FACULTY

- Prof. Ramya B N presented a paper titled “Exploring the Cosmos with Machine Learning: Advancements in Astronomical Data Processing” at the 2024 Second International Conference on Data Science and Information System (ICDSIS).
- Prof. Usha Sri Gunti presented a paper titled “AGE NET: DEEP LEARNING TO AGE-INVARIANT FACE RECOGNITION” at the two-day International Conference on Engineering Advancements and Sustainable Development (ICEASD 2024) held on 29th and 30th April 2024.
- Prof. Ushashri Gunti presented a paper titled “Fortifying the Blockchain Fortress: A Machine Learning Paradigm for Enhanced Security” at the National Conference “Product, Process, Technology and Business Innovation (NPPTBI-24)” organized by the Department of Computer Science “Engineering and CSE (Data Science) in association with IIC, held on 27th April 2024.

NSS ACTIVITY

Visit to Agara government school



As part of the National Service Scheme (NSS) initiative, 4th-semester AIML students from Jyothy Institute of Technology visited Agara Government School on [insert date]. The objective was to engage with school students through a series of educational and recreational activities that fostered learning, creativity, and a sense of national pride.

Key Activities:

Introduction to ChatGPT, Microsoft Word Workshop, Graphic Design with Canva, Cultural Activities, Intellectual Games, Quiz Competition.

The visit was a rewarding experience for all involved, with students from both institutions gaining valuable skills and insights. This event highlighted the importance of community service and the role of education in shaping the future.

Enigma : A Technical Extravaganza

The ENIGMA event, held on December 22-23, 2023, at Jyothy Institute of Technology, showcased talents in Artificial Intelligence and Machine Learning. Organized by the Department of AI and ML with AI NEXUS, and sponsored by ITC InfoTech, SJS Enterprises Limited, and Quantech Origin, this 24-hour competition is a highlight in the AI/ML field. The event featured a challenge from ITC InfoTech involving complex AI and ML problems. Teams received initial requirements two days before and additional tasks on the event day, fostering real-time problem-solving. Participants enjoyed meals and entertainment, including karaoke and a flash mob. With 270 students, 45 faculty members, and 146 external participants, industry experts like Maitreya Samanta provided valuable feedback. The valedictory session, attended by Mr. Abdhul Rahim and Dr. Arun Nagaraj, awarded top teams:

- 1st Place: Team “IDK What We’re Doing” from RVCE
- 2nd Place: Team “Circus Wale” from DSCE
- Consolation Prizes: Team “Cyrus” from BNMIT and Team “CodeCrafters United” from JIT

Special awards recognized innovation, user experience, implementation, report generation, and best use of AI/NLP.

ENIGMA 2023 was a success, promoting learning and innovation, and encouraging many to pursue further education or careers in AI and ML.



Empowering Future Leaders: Women Entrepreneurship Program at AIC, Jyothy Institute of Technology



A remarkable Women Entrepreneurship Program was organized by AIC, Jyothy led by Kristeena Grover

Five dedicated students - Diya K Bhat (1JT22AI012), Monisha Bharadwaj M H(1JT22AI062), Asritha Y (1JT22AI005), Thanmayi B (1JT22AI053) and MonishaSP (1JT22AI030) enthusiastically participated. They were introduced to the basics of entrepreneurship, including idea generation, business planning, and market analysis.

The program provided a dynamic learning environment where our students interacted with successful entrepreneurs and industry experts. The students of 4th semester AIML showcased exceptional dedication and innovative ideas throughout the workshops and discussions.

A special thank you goes to Dr. Anantha Prasad for his unwavering support and encouragement, which played a crucial role in the program's success. His guidance and mentorship were invaluable to our students.

Industrial Visit to ISRO (URSC)



On July 16th, 2024, the Department of AIML at Jyothy Institute of Technology organized an industrial visit to the U R Rao Satellite Centre (URSC), Bangalore. The visit aimed to provide students with technical exposure to space technology. Attended by 64 students and faculty, the visit included insights into ISRO's GSLV and PSLV launch vehicles and their applications in telecom, disaster warnings, and resource management. At the ISRO Satellite Centre, students explored the space exhibition center.