



Department of Artificial Intelligence and DataScience

FACULTY DETAILS

Staff Name	:	Dr. N. Mythili
Date of Birth	:	26.04.1972
Educational Qualification	:	M.E., Ph.D.
Area of Interest	:	Image Processing, Machine Learning
Years of Experience	:	26 Years 2 Months
Area of Research	:	Spatial Query Processing
No of Student Projects Guided	UG – 25	PG – 53
Supervisor	:	Dr. C. Jayakumar
FDP & Workshop Funding	:	-
Research Projects (Granted)	:	-
R & D Activities	:	Journals 1. "Crossover Boosted Grey Wolf Optimizer-based framework for leader election and resource allocation in Intrusion Detection Systems for MANETs", Transactions on Emerging Telecommunications Technologies, May 2024, Vol. 35, Iss. 5. 2. "An improved cyber-attack detection and classification model for the internet of things systems using fine-tuned deep learning model", International Journal of Sensor Networks, January 25, 47, 1, 11-25. 3. "Multistage Intrusion Detection Framework Using a Robust Nonlinear Machine Learning Approach for Enhancing Cloud Security in Electric Vehicles in Smart Grid", SSRG International Journal of Electronics and Communication Engineering (SSRG - IJECE Journal), February 2025, 12, 2, 152-165.
Publication Details	:	

Conferences

1. Presented a paper titled “Improving Solar Efficiency via CNN-LSTM and Cloud-Integrated IoT Prediction” at 2024 3rd International Conference on Sentiment Analysis and Deep Learning (ICSADL), Bhimdatta, Nepal, on 25th July 2024.
2. Presented a paper titled “Polycystic Ovary Syndrome (PCOS) Disease Prediction using Machine Learning” at 2024 IEEE International Conference on Contemporary Computing and Communications (InC4) on 3rd September 2024.
3. Presented a paper titled “AI – Enhanced Virtual Trial Room using Augmented Reality” at 6th International Conference on Mobile Computing and Sustainable Informatics(ICMCSI 2025) – Purbanchal University, Nepal on 20th February 2025.
4. Presented a paper titled “Botanical Bio vision advancing Plant leaf disease classifications with Convolutional Neural Network” at 6th International Conference on Mobile Computing and Sustainable Informatics(ICMCSI 2025) – Purbanchal University, Nepal on 20th February 2025.
5. Presented a paper titled “Enhanced Anaemia detection using Deep learning models integrated into a web based fingernail imaging application with Email Authentication” at 3rd International Conference on Electronics And Renewable Systems (ICEARS 2025)-St. Mother Theresa Engineering College, Tuticorin, Tamil Nadu.
6. Presented a paper titled “Detection of TB from Chest X- ray: A Study with Efficient Net” at International Conference on System, Computation, Automation and Networking, ICSCAN 2023.
7. Presented a paper titled “Lightweight Deep-Learning Based Music Genre Classification: A Study” at International Conference on System, Computation, Automation and Networking, ICSCAN 2023.
8. Presented a paper titled “Exploring the Role of Generative Adversarial Networks (GANs) in Image Translation using Load Balancer Interface Application” at 3rd International Conference on Innovative Mechanisms for Industry Applications, ICIMIA 2023 - Proceedings, 2023.

Patent Publications	:	1. Patent Published for “Predictive Analytics for Real-Time
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	<p>Health Assessment of EV LiIon Batteries through Artificial Intelligence”, Application No. 202441049869, 05/07/2024</p> <p>2. Patent Published for “Ai-Driven Exploration of Bismuth-Based Double Perovskites for Enhanced Solar Cell Performance”, Application No. 202421055890, 16/08/2024</p> <p>3. Patent Published for “Bioreactor for Water Purification and Bioenergy Production from Medical Waste”, Application No. 202441060995, 12/08/2024</p> <p>4. Patent Published for “Smart IoT Necklace for Women’s Safety and Protection”, Application No. 202441019661, 29/03/2024.</p>
Honors & Awards	<ul style="list-style-type: none"> 1. Served as ‘Session Chair’ in 4th International Conference on Innovative computing, Intelligent Communication and Smart Electrical Systems(ICSES 2024) at St. Joseph’s Institute of Technology on 12th December 2024. 2. Served as ‘Session Chair’ in 3rd International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES-2023) at St. Joseph’s Institute of Technology on 14th & 15th December 2023.
Events Conducted	<ul style="list-style-type: none"> 1. Conducted FDP on “Cyber Security and Ethical Hacking” for SJIT & SJCE Faculty Members in association with IEI Professional Chapter on 26.02.2025, 27.02.2025 & 28.02.2025. 2. Conducted Staff workshop on “CCS355 – Neural Networks & Deep Learning” on 1st & 2nd November 2023 organized by the Department of CSE of St. Joseph’s Institute of Technology. 3. Conducted various Machine Learning Club events in the academic year 2023 – 24. 4. Organized Department Orientation programme for ME students of CSE Department on 06.08.2020. 5. Conducted FDP on “Developing E-Content for Effective Teaching Learning Process” from 01.07.2020 to 02.07.2020. 6. Organized a Webinar on ”Covid-19: A New Pandora’s Box to Close” by Dr. Divya on 24.06.2020. 7. Coordinated an Alumni Talk on “Tips to keep in mind before facing an Interview & Companies Expectation towards you” on 20th June 2020. 8. Organized Value Added Course on” Java programming with

	<p>Real time examples” from 18th to 20th June 2020.</p> <p>9. Conducted Webinar on “Deep Learning through NLP” on 21.05.2020.</p>
Responsibilities Held	<ol style="list-style-type: none"> 1. III Year Students Coordinator 2. Staff FDP & workshop In charge 3. Machine Learning Club In charge 4. Department Exam In charge 5. Guest Lecture In charge 6. Inter College & Intra Department Symposium In charge 7. Students Counseling and Grievances committee In charge 8. Stock verification Committee member 9. Students Activity In charge 10. Project Coordinator for final year students 11. Course Question bank maintenance in charge 12. Class Monitoring Committee in charge 13. Committee member and In charge for College day, Convocation day & Cultural
FDPs & Workshops Attended Details	<ol style="list-style-type: none"> 1. Attended a FDP on “Harnessing Artificial Intelligence for Healthcare Excellence: Innovations, Insights and Impacts” from 24.6.24 to 29.6.24 at SRM Ramapuram. 2. Attended a FDP on “Mastering Research Paper and Proposal Writing” from 19.8.24 to 30.8.24 at SRM Vadapalani. 3. Attended a FDP on “Tools for Research in Communications and VLSI Signal processing for RF Applications” from 17.9.24 to 23.9.24 at Chaitanya Bharathi Institute of Technology, Hyderabad. 4. Attended a FDP on “Introduction to Machine Learning” from Jul - Sep 24 by NPTEL. 5. Attended a FDP on “Intelligent Data Management : Integrating AI, Machine Learning and Advanced Database Systems” from 23.12.24 to 30.12.24 at SRM Valliammai Engineering College. 6. Attended a 7 Days National Level FDP on “Python” from 19.03.2024 to 25.03.2024 at Star International Foundation for Research and Education, Namakkal. 7. Attended a FDP on “CCS3370 – UI/UX Design” from 14.11.2023 to 18.11.2023 at St. Joseph’s Institute of

Technology, Chennai.

8. Attended a FDP on “Cutting Edge Trends in Deep Learning” from 03.10.2023 to 13.10.2023 at Sathyabama Institute of Science and Technology, Chennai.
9. Attended a FDP on “Exploring Horizons: The Next Wave of AI and Data Science” from 25.09.2023 to 29.09.2023 at SRM TRP Engineering College, Tiruchippalli.
10. Attended a FDP on “Cloud, Fog and Edge Computing” from 18.09.2023 to 22.09.2023 at St. Joseph’s College of Engineering(NITTTR).

Professional Membership	:	ACM membership ID: 7935151
LinkedIn ID	:	https://www.linkedin.com/in/mythili-n-8ab22330b/
Google Scholar ID	:	https://scholar.google.com/citations?user=g6HHtf8AAAAJ&hl=en
Scopus ID	:	58886499900
Web of Science ID	:	JEZ-7637-2023
E-mail ID	:	mythilin@stjosephstechnology.ac.in
Mobile Number	:	9940047264