



**Department of Artificial Intelligence and Datascience**

**FACULTY DETAILS**

<b>Staff Name</b>	: Dr. N. Mythili
<b>Date of Birth</b>	: 26.04.1972
<b>Educational Qualification</b>	: M.E., Ph.D.
<b>Area of Interest</b>	: Image Processing, Machine Learning
<b>Years of Experience</b>	: 26 Years 2 Months
<b>Area of Research</b>	: Spatial Query Processing
<b>No of Student Projects Guided</b>	: UG – 25 PG – 53
<b>Supervisor</b>	: Dr. C. Jayakumar
<b>FDP &amp; Workshop Funding</b>	: -
<b>Research Projects (Granted)</b>	: -
<b>R &amp; D Activities</b>	:
<b>Publication Details</b>	<p><b>Journals</b></p> <ol style="list-style-type: none"><li>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.</li><li>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.</li><li>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.</li></ol>

## 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 25<sup>th</sup> 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 3<sup>rd</sup> 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 20<sup>th</sup> 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 20<sup>th</sup> 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

	<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>
<b>Honors &amp; Awards</b>	<p>: 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 12<sup>th</sup> December 2024.</p> <p>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 14<sup>th</sup> &amp; 15<sup>th</sup> December 2023.</p>
<b>Events Conducted</b>	<p>: 1. Conducted FDP on “Cyber Security and Ethical Hacking” for SJIT &amp; SJCE Faculty Members in association with IEI Professional Chapter on 26.02.2025, 27.02.2025 &amp; 28.02.2025.</p> <p>2. Conducted Staff workshop on “CCS355 – Neural Networks &amp; Deep Learning” on 1<sup>st</sup> &amp; 2<sup>nd</sup> November 2023 organized by the Department of CSE of St. Joseph’s Institute of Technology.</p> <p>3. Conducted various Machine Learning Club events in the academic year 2023 – 24.</p> <p>4. Organized Department Orientation programme for ME students of CSE Department on 06.08.2020.</p> <p>5. Conducted FDP on “Developing E-Content for Effective Teaching Learning Process” from 01.07.2020 to 02.07.2020.</p> <p>6. Organized a Webinar on ”Covid-19: A New Pandora’s Box to Close” by Dr. Divya on 24.06.2020.</p> <p>7. Coordinated an Alumni Talk on “Tips to keep in mind before facing an Interview &amp; Companies Expectation towards you” on 20<sup>th</sup> June 2020.</p> <p>8. Organized Value Added Course on” Java programming with</p>

	<p>Real time examples” from 18<sup>th</sup> to 20<sup>th</sup> June 2020.</p> <p>9. Conducted Webinar on “Deep Learning through NLP” on 21.05.2020.</p>
<b>Responsibilities Held</b>	<p>:</p> <ol style="list-style-type: none"> <li>1. III Year Students Coordinator</li> <li>2. Staff FDP &amp; workshop In charge</li> <li>3. Machine Learning Club In charge</li> <li>4. Department Exam In charge</li> <li>5. Guest Lecture In charge</li> <li>6. Inter College &amp; Intra Department Symposium In charge</li> <li>7. Students Counseling and Grievances committee In charge</li> <li>8. Stock verification Committee member</li> <li>9. Students Activity In charge</li> <li>10. Project Coordinator for final year students</li> <li>11. Course Question bank maintenance in charge</li> <li>12. Class Monitoring Committee in charge</li> <li>13. Committee member and In charge for College day, Convocation day &amp; Cultural</li> </ol>
<b>FDPs &amp; Workshops Attended Details</b>	<p>:</p> <ol style="list-style-type: none"> <li>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.</li> <li>2. Attended a FDP on “Mastering Research Paper and Proposal Writing” from 19.8.24 to 30.8.24 at SRM Vadapalani.</li> <li>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.</li> <li>4. Attended a FDP on “Introduction to Machine Learning” from Jul - Sep 24 by NPTEL.</li> <li>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.</li> <li>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.</li> <li>7. Attended a FDP on “CCS3370 – UI/UX Design” from 14.11.2023 to 18.11.2023 at St. Joseph’s Institute of</li> </ol>

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).

<b>Professional Membership</b>	: ACM membership ID: 7935151
<b>LinkedIn ID</b>	: <a href="https://www.linkedin.com/in/mythili-n-8ab22330b/">https://www.linkedin.com/in/mythili-n-8ab22330b/</a>
<b>Google Scholar ID</b>	: <a href="https://scholar.google.com/citations?user=g6HHtf8AAAAJ&amp;hl=en">https://scholar.google.com/citations?user=g6HHtf8AAAAJ&amp;hl=en</a>
<b>Scopus ID</b>	: 58886499900
<b>Web of Science ID</b>	: JEZ-7637-2023
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