Faculty Profile



N.Madhumitha , M.Tech
Assistant Professor

HIGHLIGHTS:

- Number of Journal Publications:1
- H-Index:1
- Project Funding Received:0
- Patents Published:7
- Patents Granted:2

PROFESSIONAL LINKS:

- Scopus ID: 59231811900
- Scopus Link: https://www.scopus.com/authid/detail.uri?authorId=59231811900
- Google Scholar ID: https://scholar.google.com/citations?view_op=list_works&hl=en&authuser=1&user=sZkbE9QAAAAJ
- Anna University Faculty ID:2670791985
- AICTE Faculty ID: 1-43395401939
- Anna University Supervisor ID: Nil
- LinkedIn: https://www.linkedin.com/in/madhu-mitha-016aba343/

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 6 years
- Industrial Experience: Nil

AREA OF SPECIALIZATION:

- Software Engineering
- Image Processing
- Machine Learning and Deep Learning.

JOURNAL

- Malathi, K., Shruthi, S. N., Madhumitha, N., Sreelakshmi, S., Sathya, U., & Sangeetha, P. M. (2024). Medical Data Integration and Interoperability through Remote Monitoring of Healthcare Devices. *Journal of Wireless Mobile Networks, Ubiquitous Computing, and Dependable Applications (JoWUA)*, *15*(2), 60-72.Scopus
- N. Madhumitha and S. Hemadharsana (2026). Hybrid Deep Learning Approach Utilizing CNN and Transformer Architectures for Improved Brain Tumor Classification-Engineering Applications of Artificial Intelligence (under Review)
- Hemadharsana S, N. Madhumitha, Vinoth R, R. Vanitha G.Brintha, and Adithi Venkatakrishnan (DEC 2025), Enhancing Abstractive Text Summarization with Neural Network-based Techniques, AVE Trends in Intelligent Computing Systems 2(4):184-195, https://doi.org/10.64091/ATICS.2025.000211
- VinothRamanathan,MadhumithaNadarajan,SabaresanVenugopal,Deeptha Ramamurthi,Dr.Samson Davidson,Dr.Muthuvel Laxmikanthan Segmentation - Driven Optimization Of Angiographic Disease Risk Classification Using Deep Multiscale Fusion Neural Network with Hybrid Optimization in Spark.(Under Review)

PROFESSIONAL MEMBERSHIP

IEEE Membership Number:102357626

PROFESSIONAL SKILL CERTIFICATE:

- TalentNext-Java Full Stack -Wipro Certificate faculty training program from 18th to 29th August 2025.

NPTEL

- Python for Data Science (4-week course), with 2 credits IIT M,Jan – March 2026
- Affective Computing (12-week course), with 4 credits, IIT D,Jan – April 2026 - Elite with FDP.
- Introduction to Machine Learning (Tamil)(8-week course), with 2 or 3 credits IIT M Jan – March 2025

INTERNATIONAL CONFERENCES ATTENDED:

- Pal, S., Srividhya, B., Maity, S., Thilaka, A., Poongodi, A., & Madhumitha, N. (2025, January). Global IoMT Data Analysis Through AI-Driven Governance Framework. In *International Conference on Mathematical Modeling and Computational Science* (pp. 247-257). Cham: Springer Nature Switzerland.

- Shakila, M., Govindaram, A., & Madhumitha, N. (2024, October). Scalable Framework for Secure and Integrity-Driven Online Examination Systems using Blockchain. In *2024 8th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud)(I-SMAC)* (pp. 715-721). IEEE.

PATENTS/ GRANTED PUBLISHED:

- Machine Learning Based Security Device for Cloud Computing. (Design No.458419-001, Date: 11/05/2025)
- Smart Wearable Iot Device for Continuous Cardiovascular Health Monitoring.

(Application No.202541033659 A, Publication Date: 02/05/2025).

- Smart BlockChain Goverance Using Reinforcement Learning Algorithms. (Application No.202541014106 A,Publication Date:07/03/2025).
- AI Based Device for Predicting Maintenance of Industrial Machine (Design No. 426236-001, Date: 08/08/2024).
- Malaria Infected Red Blood Cells Using Image Processing and Machine Learning. (Application No.202441048275, Publication Date: 05/07/2024).
- A Deep Learning Based System And Method For Early Prediction Of Cardiac Attack Risk Using Patient Health Records(202541130548 23/12/2025 20/02/2026).
- Unified Deep Learning Framework For Digital Image Forgery Detection (202541130547 23/12/2025 20/02/2026).
- AI Driven Autonomous Andadaptive Firewall (202541128488 18/12/2025 20/02/2026)
- AI RAG RESEARCH PARTNER(202541113207 18/11/2025 09/01/2026)

Others Details (IF Any):

FDP Attended

- Wipro Certificate faculty training program on Java Full Stack conducted by TalentNext from 18th to 29th August 2025.

- Participated in Five Days workshop(23rd to 27th June 2025) on AI to Generative AI in Research Perspectives organized by CAINDRA in Collaboration with Department of Information Science and Technology, College of Engineering Guindy, Anna University, Chennai.

- Participated in the AICTE Recognized Faculty Development Programme on Machine Learning Using Python (NITTTR) Chandigarrh conducted by Computer Science and Engineering from 17-02-2025 to 21-02-2025 at Easwari Engineering college,Ramapuram,Chennai,Tamilnadu

- Participated & completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on “Integrating Machine Learning and Deep Learning in Real-time IoT Systems” (in Association with NVIDIA) at SAVEETHA ENGINEERING COLLEGE from 02/12/2024 to 07/12/2024.

- Participated in the “Two-Day National Level Online Workshop on Designing Effective Surveys,” Organised by CEDAAR, Chennai, India on 8th & 9th November, 2024

- Participated in the two weeks Faculty Development Program on “Mastering Research Paper and Proposal Writing” Organized by Department of Computer Science and Engineering, SRM Institute of Science and Technology,Vadapalani Campus from 19.08.2024 to 30.08.2024.

- Participated in 5 Days National Seminar on “Unraveling the Real Time Application of IOT with Deep Learning Models” Organized by Department of Computer Science and Engineering, SRM Institute of Science and Technology,Ramapuram held during 10th -14th June 2024.

- Participated in skill training workshop on “Efficient Project Management & Documentation: Modern Tools usage for Projects & Paper writing” jointly Organized by

Department of Computer Science, St.Xavier's College of Management & Technology,Patna,Bihar,India & RSP Science Hub, Coimbatore, Tamilnadu, India on 16.04.2024.

- Participated in National Faculty Development Program on "Data Analytics using Power BI and Tableau" organized by Faculty of IT and CS -Parul University - Gujarat, Atria Institute of Technology- Karnataka & Amity Pune – Maharashtra in Collaboration with ExcelR Edtech Pvt. Ltd. Date: 11th March to 15th March 2024.

- Participated in Faculty Development Program on **"**CYBER WISE EDU**"** Organized by Department of Computer Science and Engineering School of Computing from 08-01-2024 to 12-01-2024.

- Participated in the Online Webinar organized by Department of Electronics and Communication Engineering titled "IOT Automation Through Open Source Tools" on 26th July at Vaigai College of Engineering, Madurai.

- Participated in 5 days Faculty Development Program on "Data Science Specialization using Python" from 10.7.2023 to14.7.2023 conducted by Novitech R & D Private Limited.

- Participated in 7 Day National Level Online Faculty Development Program on "ChatGPT & AI Tools for Educators", organised by Marian College Kuttikkanam (Autonomous) in association with The Kerala State Higher Education Council from 14 June to 21 June 2023 and has successfully completed all the tasks, assignments and assessments of this online FDP and secured A grade.

NPTEL:

Declaration:

I hereby declare that all the details furnished above are true to the best of my knowledge and belief.