Faculty Profile



G.M. Sasikala , B.E.,M.E., (Ph.D)
Assistant Professor/AIML

PROFESSIONAL LINKS:

- Scopus ID: 58694149600
- Scopus Link: https://www.scopus.com/authid/detail.uri?authorId=58694149600
- Anna University Faculty ID: 2647131982
- AICTE Faculty ID: 1-43417048162

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 9+ Years

AREA OF SPECIALIZATION:

- Medical Image Processing and Network Security

PATENTS PUBLISHED:

- **Title:** Virtual AI Therapist for Mental Health Monitoring and Interventions

- **Title:** Integrated AI-Powered Cybersecurity Framework for Proactive Threat Mitigation and Resilient Defense

COURSES CERTIFIED:

- Completed Online Course “Unlocking the Power of Generative AI with ChatGPT for Higher Education” Certified by GalileoX, an online learning initiative of Universidad Galileo.

- Completed Online Course “What Is Generative AI?” offered by LinkedIn Learning

- Completed Online Course “Explore Machine Learning using Python” offered by Infosys Sprigboard

- Completed “GalileoXAI002_V2: Unlocking the Power of Generative AI with ChatGPT for Higher Education a course of study offered by GalileoX, an online learning initiative of Universidad Galileo.

PUBLICATIONS:

- S. Sasikumar, R. Pugalenthi,G. M. Sasikala, and M. P. Rajakumar, Medical Image Segmentation and Classification Using Modified DoubleU-Net and PolyNet Deep Neural Networks on International Journal of Pattern Recognition and Artificial Intelligence, Vol. 37, No. 13, 2357013 (2023), https://doi.org/10.1142/S0218001423570136

- Sasikala G M; Joshikha V; Keerthana E, "Integrative Approach To Skin Disease Identification: Analyzing Melanoma And Non-melanoma Patterns," *2024 International Conference on Advances in Computing, Communication and Materials (ICACCM)*, Dehradun, India, 2024, pp. 1-6, doi: 10.1109/ICACCM61117.2024.11059007.

- G. M. Sasikala and K. Anand, "Evaluating the Efficiency of GAN-Generated Data in Deep Learning Models for Lung Disease Parameter Detection using CT and PET Images," *2024 International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI)*, Chennai, India, 2024, pp. 1-9, doi: 10.1109/ACCAI61061.2024.10602417.

- G. M. Sasikala, D. Monashree and M. Praveen, "IOT Based Connected Companion," *2025 International Conference on Data Science, Agents & Artificial Intelligence (ICDSAAI)*, Chennai, India, 2025, pp. 1-6, doi: 10.1109/ICDSAAI65575.2025.11011693.

- Sasikala, G.M., Anand, K. ExU-Trans: a self-explanatory transformer with U-Net based hybrid model for brain tumor segmentation using MR imaging, COMPLEX & INTELLIGENT SYSTEMS, 12(147),PP 1-25, (2026).

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

- 5 days FDP on Workshop on “Deep Learning in Medical Imaging: Preprocessing, Segmentation and Optimization” Organized by School of Computer Science & Engineering (SCOPE), VIT-AP University, Amaravati from 16.06.2025 to 20.06.2025.”

- 5 days FDP on “Emerging Tools and Techniques in Machine Learning and Data science” during 5th to 10thFeb 2024, in association with Computer Society of India.

- 6 days FDP on Workshop on “Emergimg Tends in Machine Learning, Deep Learning and Cloud-Based AI Tools” Organized by Department of Artificial Intelligence and Data Scence, in association with Coding Club, DMI Engineering College from 02.01.2026 to 07.01.2026.”

- 6 days FDP on Workshop on “Advanced AI : Tools and Algorithms (AATA-2026)” Organized by the Department of Computer Science and Engineering, Sri Sivasubramaniya Nadar College of Engineering during 02-07 February, 2026.

- Online Six-Day Short-Term Training Programme on “IOT - Based Smart Predictioin and Intelligent Systems” Organized Sri Venkateswara College of Engineering” from 9-2-2026 to 14-02-2026.