

## Ms. Sandhyarani



**Designation: Assistant Professor of CSE**

**Education: M.Tech, (Ph.D)**

### **Research Publications:**

#### **Conferences/Patents and Workshops Attended/Organized:**

##### **❖ Conference Papers Published:**

- 1) Published a **Conference paper** titled “Precise Identification Of Selected Foraminiferal Species From The Globotruncana Genus In Core Sediments Of The Krishna-Godavari Basin Using Deep Learning Algorithms” in IEEE International conference on Next-Gen Technologies of Artificial Intelligence and Geoscience Remote Sensing (EarthSense) <https://ieeexplore.ieee.org/xpl/conhome/11297181/proceeding>, 2025.
- 2) Presented a **Research paper** titled “Prediction Of Arrhythmia Using Hybrid CNN ” in IC-AISMART-2025 at JSS Academy of Technical Education, Bangalore. Dec - 2025.
- 3) Presented a **Conference paper** titled “Ensemble Learning Approach for Multi-Class Arrhythmia Detection Using Biometric and Clinical Data”, in 8<sup>th</sup> Springer ICICC-2025 at CMR Technical Campus, Hyderabad and received **BEST PAPER AWARD**.
- 4) Presented a **Conference paper** titled ”Optimizing Security for Cloud Computing Network Outsourcing Through the Implementation of Mobile Devices and Cryptography Model”, [https://doi.org/10.1007/978-3-031-78931-1\\_40](https://doi.org/10.1007/978-3-031-78931-1_40), 2025.
- 5) Published a **Conference paper** titled “Deep Neural Networks for the Classification and Recognition of Plant Leaf Diseases”, [https://doi.org/10.1007/978-981-96-3939-7\\_40](https://doi.org/10.1007/978-981-96-3939-7_40), 2025.
- 6) Published a **Conference paper** titled “Efficient Monitoring System for Crops Against Animal Intrusion Based on IoT and Machine Learning”, [https://doi.org/10.1007/978-981-96-4391-2\\_34](https://doi.org/10.1007/978-981-96-4391-2_34), 2025.
- 7) Published a **Conference paper** titled “An Encrypted Method for Utilizing the Optimization of Ant Colonies to Protect Against DDoS Attacks”, [https://doi.org/10.1007/978-3-031-81086-2\\_53](https://doi.org/10.1007/978-3-031-81086-2_53), 2025.

- 8) Published a **Conference paper** titled “Smart Vision and Intelligent Object Recognition System for the Visually Impaired”, [https://doi.org/10.1007/978-3-031-81083-1\\_44](https://doi.org/10.1007/978-3-031-81083-1_44), 2025.
- 9) Published a **Conference paper** titled “Detection of Healthy and Diseased Plant Leaf Based on Alexnet-Convolutional Neural Network Using Deep Learning”, in **2024 Ninth International Conference on Science Technology Engineering and Mathematics (ICONSTEM)**, <https://doi.org/10.1109/ICONSTEM60960.2024.10568810>, **2024**.
- 10) Published a **Conference paper** titled “Sentiment Analysis Principle Technical Approach on Online Social Network Data Using CNN for Detection of Stress”, in Proceedings of Fifth International Conference on Computer and Communication Technologies-IC3T 2023. [https://doi.org/10.1007/978-981-99-9704-6\\_37](https://doi.org/10.1007/978-981-99-9704-6_37). 14<sup>th</sup> Feb 2024.
- 11) Published a **Conference paper** titled “Classification of Skin Disease using CNN” and has been awarded as the **Best Paper Presenter**, in International Conference On Evolutionary Algorithms and Soft Computing Techniques, held at RV Institute of Technology and Management, Bangalore, <https://doi.org/10.1109/EASCT59475.2023.10393477>. 20<sup>th</sup> -21<sup>st</sup> Oct 2023.
- 12) Published a **Conference paper** titled “Detection of Malicious URLs using Gradient Boosting Classifier” in Springer 11<sup>th</sup> International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) - 2023 held at Cardiff School of Technologies, Cardiff Metropolitan University, Cardiff, UK, 2023. And Published **Book Chapter** on the same. [https://doi.org/10.1007/978-981-99-6702-5\\_28](https://doi.org/10.1007/978-981-99-6702-5_28). 2023
- 13) Published as a **Book Chapter** in Springer with title “An Improved Blind Deconvolution for Restoration of Blurred Images Using Ringing Removal Processing”, [https://doi.org/10.1007/978-981-19-8563-8\\_34](https://doi.org/10.1007/978-981-19-8563-8_34). 2023.
- 14) Published paper titled “Anticipating Bradycardia in Preterm Infants Consuming Point Procedure Study of Heart Rate”, in International Journal of Computer Science and Information Technology Research (IJCSITR), Volume-6, Issue-2, 2018.

#### ❖ **Journal Paper Published:**

- 1) Published a paper on ”Analysis of Artificial Intelligence Applications Using Microsoft Lobe: A Literature Review”, at Journal of Research and Review: Machine Learning, Volume 1 Issue 2, DOI: <https://doi.org/10.5281/zenodo.14874523>.2025.
- 2) Published a paper on “Advancements in Blockchain Technology For Real Estate Transactions: A Comprehensive Overview”, at Journal of Recent Trends in Blockchain Technology & It's Applications, Volume 1 Issue 1, DOI: <https://doi.org/10.5281/zenodo.14874934>.2025.
- 3) Published a paper on ”Autonomous Driving Powered by 5G Enabled Mobile Edge Computing, LoPECS and Edge AI”, at Research & Reviews: Journal of Internet & Networking, Volume 1 Issue 1, DOI: <https://doi.org/10.5281/zenodo.14874336>.2025.
- 4) Published a paper on” FaceForge: Personalized Facial Enhancement with Class-guided Noise Reduction”, at Journal of Research and Review: Machine Learning , Volume 1 Issue 2, DOI: <https://doi.org/10.5281/zenodo.14874554> .2025.

- 5) Published a paper on “Identifying Vulnerable Nodes In Networked infrastructures: A Methodological Approach To Optimal Cost Attacks”, at Research & Reviews: Journal of Internet & Networking, Volume 1 Issue 1, DOI: <https://doi.org/10.5281/zenodo.14874469>. 2025.

❖ **Patents Published:**

- 1) **Published Patent on** “An IOT-Based Pet Care System” in 2025.
- 2) **Published Patent on** “AI Based Micro GPS Tracking Chip” and it is been **Granted**, 2023.
- 3) **Published Patent on** “Neural Approach of Pattern Recognition In Machine Learning for Performing Trend Analysis”, 2022.
- 4) **Published Patent on** “Artificial Intelligence Driven Knowledge Process Outsourcing”, 2022.
- 5) **Published Patent on** “Authenticity & Security for Critical and Important Data Storage Using Block chain”, 2022.

❖ **NPTEL Certifications:**

- 1) Received a certificate of appreciation for being recognized as **NPTEL DISCIPLINE STAR** in Jul-Dec 2025.
- 2) Successfully completed the 12 weeks course on **Internet Of Things** in 2025.
- 3) Successfully completed the 12 weeks course on **Cloud Computing** in 2025.
- 4) Successfully completed the 12 weeks course on **Data Analytics using Python** in 2024.
- 5) Successfully completed the 8 weeks course on **Introduction to Machine Learning** in 2024.
- 6) Successfully completed the 8 weeks course on **Research Methodology** in 2024.
- 7) Successfully completed the 8 weeks course on **Big Data Computing** in 2023.
- 8) Successfully completed the 12 weeks course on **Cyber Security and Privacy** in 2023.