

## Faculty Profile

Name: **Dr. N. Anusha**

Designation: Sr. Assistant Professor

Teaching Areas: Artificial Intelligence, Machine Learning, Data Analytics, Python Programming, Cloud Computing, Database Management Systems, Operating Systems, Digital Image Processing, Remote Sensing & GIS

Research Interests: Artificial Intelligence, Deep Learning, Machine Learning, Remote Sensing, Geospatial Analytics, Computer Vision, UAV Image Analysis, Cybersecurity Applications

Education: Ph.D. in Computer Science & Engineering, Sathyabama Institute of Science & Technology (Deemed to be University), Chennai, 2021

M.Tech. in Advanced Computing, SASTRA University, Thanjavur, 2008

B.Tech. in Electronics & Communication Engineering, JNTU Hyderabad, 2006



### Research/Selected Publications:

1. **N. Anusha** et al. (2026). "Multimodal Deep Learning Framework for Pneumonia Detection Using Chest X-Rays and Clinical Data". Proceedings of the 5<sup>th</sup> International Conference on Emerging Research in Electronics, Computer Science and Technology (ICERECT-2025), IEEE Xplore.
2. **N. Anusha**, et al. (2025). "Enhancing Multiple Object Detection in UAV Images: A Comparative Study of YOLO, R-CNN and SSD Algorithms". Proceedings of the 2024 International Conference on Sustainable Communication Networks and Application (ICSCNA), IEEE Xplore, Feb 2025.
3. **N. Anusha**, et al. (2024). "Automated Extraction of Textural Features from Segmented Sentinel-1A Synthetic Aperture Radar Satellite Image Using Grey Level Co-Occurrence Matrix". Elsevier Procedia Computer Science, Vol. 235, pp. 2124-2134, May 2024.
4. **N. Anusha** (2022). "Detection and Classification of Vegetation Areas from Red and Near Infrared Bands of Landsat-8 Optical Satellite Image". Applied Computer Science, Vol. 18, No. 1, pp. 45-55, March 2022.
5. **N. Anusha** and B. Bharathi (2020). "Flood Detection and Flood Mapping Using Multi-temporal Synthetic Aperture Radar and Optical Data". Egyptian Journal of Remote Sensing and Space Sciences, Vol. 23, No. 2, pp. 207-219, Aug 2020. Elsevier.
6. **N. Anusha** and B. Bharathi (2020). "Automatic Flood Detection in Multi-Temporal Sentinel-1 Synthetic Aperture Radar Imagery Using ANN Algorithms". International Journal of Computers Communication & Control, Vol. 15, No. 3, pp. 1-19, June 2020.
7. **N. Anusha**, M.SivaSindhuri (2017), "Analysis of Document Images through Local Binary Patterns", Indian Journal of Science and Technology, Vol. 10, Issue. 20, pp.1-6.