

ANNAPOORNA SAI SRIRAM MANDALIKA

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EDUCATION

Bachelor of Technology, SRM University

2021 - 2025*

Computer Science and Engineering with specialisation in AI and ML

SKILLS

Technical Skills Python/PyTorch, R, SQL, MATLAB, AWS

Machine Learning Neural networks, Computer Vision, Supervision based learning,

Robotics Machine Vision, Autonomous Vehicles.

Tools Jupyter, Git/Github and LaTeX.

Soft skills Research, Collaboration, Ethical Awareness, Adaptability to Interdisciplinary Knowledge

EXPERIENCE

UG Research Fellow

Dec 2023 - Feb 2024

Carnegie Mellon University, Pittsburgh, Pennsylvania

Remote

Supervisor: **Dr. Min Xu**

Served as a Research advisor and Product Manager to UG research projects conducted at Xu's Lab. Helped and contributed to over 3 teams with 4 research projects.

Undergraduate Researcher

Jan 2023 - Present

SRM University, Kattankulathur

Kattankulathur, TN

Supervisor: **Dr. Athira M. Nambiar**

Worked on using Active Learning paradigm with self-supervised learning to improve decision-making for self-driving vehicles for Intelligent semantic segmentation, proposed a novel Human-in-the-loop concept for attention aware semantic segmentation. Submitted to ICPR'24.

Research Intern/UG Researcher

Mar 2022 - Jun 2022/ Jan 2023 - Jun 2023/Jun 2023 - Mar 2024

IIT Hyderabad

Hyderabad, TS

Supervisor: **Dr C Krishna Mohan**

Trained an end-to-end convolutional neural network and energy-based generative model to generate synthetic data to mitigate catastrophic forgetting via generative replay to perform object recognition. I worked on a scenario where training labels were sparse. I also worked on decentralised federated learning systems to identify the risk of early-stage breast cancer.

PUBLICATIONS

1. **S Mandalika**, Athira Nambiar. "SegXAL: Explainable Active Learning for semantic segmentation in driving scene scenarios". *Submitted to 27th International Conference on Pattern Recognition (ICPR), 2024.*
2. Rahul Biswas, **S Mandalika**. "Generative Synthesis for Image Recognition using Generative Replay". *Venue undecided.*
3. **S Mandalika**, AK Singh. "A Framework for Comparative Study on Blockchain Adoption Costs in India and China". *To be submitted to the Journal of Automation in Construction.*
4. **S Mandalika**, S. Bhavishya Reddy, . "Explainable Generative Approach for Moving Target Localization". *Submitted to the 9th International Conference on Computer Vision & Image Processing (CVIP), 2024.*
5. Saranya A, Aruna S, **Annapoorna Sai Sriram Mandalika** "Deep Learning based Speech Emotional Analysis using Convolution Neural Network - Bi-directional Long Short-Term Memory". *IGI Global Book Chapter, 2024.*

EXTRA-CURRICULAR ACTIVITIES

Research and Development Head
IEEE SRM SB

Jan 2023 - Present

Guided and mentored students in research procedures, enhancing their skills and supporting their projects. We collaborate on deep learning projects and teach Computer Vision and Robotics to members.