

ANNAPOORNA SAI SRIRAM MANDALIKA

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OBJECTIVE

Actively looking for an Internship position in AI, Deep Learning, Computer Vision and Robotics.

EDUCATION

Bachelor of Technology, SRM University 2021 - 2025*
Computer Science and Engineering with specialisation in AI and ML

SKILLS

| | |
|-------------------------|---|
| Technical Skills | Python/PyTorch, R, Basic SQL, MATLAB, AWS |
| Machine Learning | Neural networks, Computer Vision, Supervised and Unsupervised learning, |
| Robotics | Machine Vision, Autonomous Vehicles. |
| Tools | Jupyter, Git/Github and LaTeX. |
| Soft-Skills | Research, Collaboration, Ethical Awareness, Adaptability to Interdisciplinary Knowledge |

EXPERIENCE

Undergraduate Researcher Jan 2023 - Present
SRM University, Kattankulathur *Kattankulathur, TN*
Supervisor: **Dr Athira. M. Nambiar**

Working on an Active Learning project with viewpoint entropy for semantic segmentation and using the Human-in-the-loop concept in remote sensing and defence applications.

Research Intern/Research Collaborator Mar 2022 - Jun 2022/ Jan 2023 - Jun 2023/Jun 2023 - Present
IIT Hyderabad *Hyderabad, TS*
Supervisor: **Dr C Krishna Mohan**

Developed custom 4-layered Python model and an 18-layered PyTorch model, employing Neural Networks and Stochastic Gradient Descent (SGD) optimization for superior image classification results. Conducted in-depth result analysis to ensure accuracy. Using custom Newton-type optimization with DenseNet-121 and logistic regression in the Federated Learning approach was pioneering. Explored Gaussian Mixture Model (GMM), MLP-400, CAEs, CVAE, etc., for image regeneration and variations, showcasing expertise in handling data complexity.

PUBLICATIONS

“Application of Active Learning in Semantic Segmentation” Athira Nambiar, S Mandalika, Mudit Baid and Shreya CH. **Status:** Submitted - ICPR 2024

“Study on Deep Generative Models for Image Regeneration” Rahul Biswas and S Mandalika; **Status:** Venue Undecided

“A Framework for Comparative Study on Blockchain Adoption Costs in India and China” S Mandalika, AK Singh, Nishanth R Dugyala; **Status:** Will be submitted to Journal Automation in Construction

EXTRA-CURRICULAR ACTIVITIES

Research and Development Head Jan 2023 - Present
IEEE SRM SB

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.