

SREE SAI DRONADULA

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LinkedIn GitHub LeetCode GFG

Summary

Undergraduate CSE (AI & DS) student with hands-on experience in LLMs, Machine Learning, Data Pipelines and Geospatial AI. Strong leadership experience (Head of AI Club) and proven performance in hackathons, research and product-like prototypes.

Skills

- **Languages:** Python, C++, C, Java, SQL, NoSQL
- **ML & AI:** Deep Learning, LLMs (OpenAI, LLaMA, Mistral), Prompt Engineering
- **Frameworks:** PyTorch, TensorFlow, scikit-learn
- **Data Tools:** Pandas, NumPy, Matplotlib, Jupyter
- **Web & Infra:** Django, HTML/CSS, Docker, AWS basics
- **Geospatial:** GIS, Remote Sensing, DEMs

Education

SASTRA Deemed University

B.Tech in Computer Science and Engineering (AI & DS)

August'2023 – May'2027

CGPA: 8.8901 / 10

Experience

AI Developer Intern

at Early Innovations Pvt. Ltd.

Sep 2024 – Jan 2025

Remote / Chennai

- Developed an LLM-driven gait analysis system that generates clinician-friendly reports and flags abnormalities.
- Automated ETL + PDF generation pipeline using Python, Pandas, Matplotlib and PyPDF2 to speed clinical review.
- Integrated OpenAI and local LLMs (Mistral, LLaMA) using robust prompt templates for domain summarization.

Academic Projects

ISRO RAG Chatbot (Retrieval-Augmented Generation)

GitHub Repo / 2025

- Developed a RAG-based chatbot for ISRO/Chandrayaan Q&A using web-scraped ISRO content, embedding-based semantic search, and LLM-powered grounded answer generation.
- Added a lightweight interaction interface with session handling, chat history, and source citations for reliable, transparent responses.

Reinforcement Learning Playground (Interactive RL Environment)

GitHub Repo / 2025

- Built an interactive Reinforcement Learning environment supporting Q-learning and DQN variants with customizable grids, obstacles, traps, human-play mode, and real-time training metrics.
- Used the platform to study reward shaping, curriculum strategies, and convergence behavior through episode statistics, performance curves, and agent-behavior visualizations.

Mobile Fitness Tracker (MATLAB)

GitHub Repo / 2024

- Engineered sensor signal-processing pipelines to estimate steps, distance, calories, and classify activities (sitting/standing/running) using statistical and frequency-domain features; deployed as a MATLAB app.

Weather Classification (Python, TensorFlow)

GitHub Repo / 2024

- Built and optimized an ANN-based weather classifier achieving **92% accuracy** using feature engineering, hyperparameter tuning, and data augmentation.

Achievements & Certifications

- SIH Top 50 (2024), Intel OneAPI Hackathon (2024), CodeRush'24 Winner (SASTRA, 2024)
- Associate Data Scientist (2024), Harvard AI with Python (2024), IBM ML 100% (2024), Stanford ML (2023)
- Reliance UG Scholar (2024), START—ISRO/IIRS A+ (2025), YUVAi AI Innovation Challenge (2024)

Positions of Responsibility

- **Head — SALVO — The AI Club, SASTRA** (2023–Present): Lead workshops, projects and mentorship for 100+ members.
- **Core Member & Head of Web Dev Cluster — E-Crush, RGUKT-NUZVID** (Jul 2022 – Aug 2023): Organized events and mentored student teams.

Publications

- **GLOF Early Warning System (Research Project, Under Submission):** Co-authored a review paper on IoT-AI based glacier-lake monitoring and early-warning systems .
- **Unleashing the Potential of DNA Gene Editing** — Medium (Mar 2024).