Ram Dhavileswarapu

sairam68386@gmail.com | +917989836425 | Portfolio

Linkedin | GitHub | GeeksforGeeks | DockerHub

Mandapeta, Andhra Pradesh - 533308, India

Objective

As a recent graduate, I am seeking a role which allows me to continue learning and perfecting my skills to contribute to the growth of the company.

Internship

- **TiHAN(IITH) [🌐]** *12 2023 - 03 2024*
  Intern Hyderabad, India

  Aim of the Project :- To enable the custom-made MAV to **navigate autonomously in indoor** environments using **SLAM on NVIDIA Jetson** devices.

  Technologies Utilized :- GitHub, Docker and ROS

  OS :- Linux (Ubuntu)

  Programming Language :- Python

  - Developed a **GPU-enabled** docker container for ORBSLAM3.
  - Developed **ROS nodes for communication** between drone and local system.

Education

- **MVGR College of Engineering** *08 2020 - 04 2024*
  B.Tech Vizianagaram, India
  * GPA: 8.43/10.00
- **Aditya Jr. College** *06 2018 - 03 2020*
  Pre-University Education Mandapeta, India
  * Grade: 9.40/10.00
- **S.V.N** *03 2018*
  Secondary Education Angara, India
  * GPA: 10.00/10.00

Projects

- **Project A: [Stock Trading Platform]** *01 2025 - 02 2025*
  Tools: [MERN | Microservices | gRPC | Upstox API] [🐙]

  * Developed a **real-time stock trading platform** by Integrating **Upstox API** for fetching live market data, executing trades, and managing stock orders seamlessly.
  * Implemented **WebSockets** to enable **ultra-low-latency, bidirectional communication**.
  * Designed an **efficient stock search system with OpenSearch**, allowing users to quickly find and track stocks.
  * Architected a **scalable microservices system**, leveraging **MongoDB** for the watchlist manager and **Prisma with PostgreSQL** for order management.
  * **Optimized inter-service communication** by implementing **gRPC**, significantly improving performance over traditional HTTP.
  * Ensured high performance and scalability through **load testing with k6**, validating system stability under heavy traffic.

◦

Project B: [Maternal Health Risk Classification] *08 2024 - 09 2024*
Tools: [pandas, numpy, matplotlib, scikit-learn, GitHub] **[]**

∗ Performed **Exploratory Data Analysis (EDA)** and data preprocessing to clean and transform raw data.

∗ Implemented and compared multiple classification models, including **Logistic Regression, SVC, Random Forest, CatBoost, K-Nearest Neighbors, XGBoost, and AdaBoost.**

∗ **Achieved 83% accuracy** by optimizing features and fine-tuning hyperparameters.

∗ Developed end-to-end **ML pipelines** for efficient training evaluation, inference, and ensuring scalability.

∗ Built a **Flask-based web application** to serve the model via REST API.

∗ Implemented a **CI/CD pipeline using GitHub Actions** for automated testing and deployment.

∗ Containerized the application and deployed the application on **AWS Cloud**, enabling real-time inference and accessibility.

Technical Skills

◦ **Programming Languages:** Python, C++, JavaScript, CUDA
◦ **Frameworks:** Scikit-Learn, Pytorch, LangChain, HuggingFace, Kafka
◦ **Tools:** Git, Docker
◦ **Databases :** SQL, MongoDB
◦ **Others:** Data Science, AI, LLMs, RAG, System Design, Data Structures and Algorithms

Skills

- Problem-Solving, Communincation, Time-management, Collaboration

Achievements and Activities

- **4-star in Python** *[]*
  Hackerrank
- **Attended 2 days AI workshop**
  JNTUK

Certifications

- **Robotics - Coursera**
- **GPU Programming - Coursera**
- **Complete Machine Learning, NLP Bootcamp MLOPS and Deployment - Udemy** *08 2024*
- **Deep Learning - NPTEL** *12 2023*

Additional Information

Languages: English (Fluent), Telugu (Native)
Interests: Playing Chess and Cricket, Listening Music