# Ram Dhavileswarapu

■ sairam68386@gmail.com | Portfolio | Hugging Face 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.

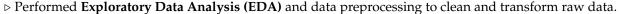
#### **EDUCATION**

Institution	Location	Duration	Degree	GPA
MVGR College of Engineering	Vizianagaram, India	08/2020 - 04/2024	B.Tech	CGPA: 8.43/10
Aditya Jr. College	Mandapeta, India	06/2018 - 03/2020	Pre-University Education	CGPA: 9.40/10
S.V.N	Angara, India	03/2018	Secondary Education	GPA: 10.0/10
PROJECTS				

#### • Project A: [Maternal Health Risk Classification]

Tools: [pandas, numpy, matplotlib, scikit-learn, GitHub]

08 2024 - 09 2024



- ▶ 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 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 and deployed the application on **AWS Cloud** for real-time inference and accessibility.

## • Project A: [Stock Trading Platform]

Tools: [MERN | Microservices | gRPC | Upstox API]

01 2025 - 02 2025

- 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.

## **TECHNICAL SKILLS**

- Robotics: SLAM, Path Planning, Perception, Kalman/Particle Filters, (Sensor Fusion, Control Systems)
- Programming Languages: Python, C++, CUDA
- Frameworks: ROS, gRPC, PyTorch, OpenCV, CMake, catkin
- Tools: Docker, Git, Gazebo, Carla, Linux
- Databases : MySQL, MongoDB
- Others: OS, Parallel Processing, Deep Learning, Data Structures and Algorithms

#### **SKILLS**

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

#### **ACHIEVEMENTS AND ACTIVITIES**

• 4-star in Python

Hackerrank

• Solved 200+ coding problems on GeeksforGeeks

GeeksforGeeks

• Attended AI Workshop

JNTUK

### **CERTIFICATIONS**

• Robotics - Coursera

• GPU Programming - Coursera

Complete Machine Learning, NLP Bootcamp MLOPS and Deployment - Udemy

08 2024

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• Reinforcement Learning - Coursera

## **ADDITIONAL INFORMATION**

Languages: English (Fluent), Telugu (Native)

Interests: Playing Chess and Cricket, Listening Music