

Ram Dhavileswarapu

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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) 🌐

Intern

12 2023 - 03 2024

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]

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 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 B: [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.

TECHNICAL SKILLS

- **Robotics** : SLAM, Kalman/Particle Filters, PID controller
- **Programming Languages**: Python, C++, CUDA
- **Frameworks**: ROS2, gRPC, PyTorch, OpenCV, CMake, colcon
- **Tools**: Docker, Git, Gazebo, Linux
- **Databases** : MySQL, MongoDB
- **Others**: OS, Parallel Processing, Deep Learning, Data Structures and Algorithms

SKILLS

- Problem-Solving, Communication, 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
- Reinforcement Learning - Coursera

ADDITIONAL INFORMATION

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