Ram Dhavileswarapu

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.

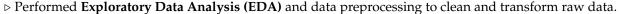
EDUCATION

| 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, Kalman/Particle Filters, PID controller
- **Programming Languages:** Python, C++, CUDA
- Frameworks: ROS, gRPC, PyTorch, OpenCV, CMake, catkin
- Tools: Docker, Git, Gazebo, 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

[💮]

• Reinforcement Learning - Coursera

ADDITIONAL INFORMATION

Languages: English (Fluent), Telugu (Native)

Interests: Playing Chess and Cricket, Listening Music