Ram Dhavileswarapu

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in 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.

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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++, CUDA
○ **Frameworks:** Scikit-Learn, Pytorch, LangChain, HuggingFace, Kafka
○ **Tools:** Git, Docker
○ **Databases :** SQL, MongoDB
○ **Others:** AI, System Design, 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

APPLICATION'S OF INTEREST

• Computer Vision (2D and 3D**)
• High Performance Computing