

# Ram Dhavileswarapu

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🌐 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

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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

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**MVGR College of Engineering**

08 2020 - 04 2024

B.Tech

Vizianagaram, India

\* GPA: 8.43/10.00

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**Aditya Jr. College**

06 2018 - 03 2020

Pre-University Education

Mandapeta, India

\* Grade: 9.40/10.00

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**S.V.N**

03 2018

Secondary Education

Angara, India

\* GPA: 10.00/10.00

## PROJECTS

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**Project A: [Stock Trading Platform]**

01 2025 - 02 2025

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

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\* 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.

- \* 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, Communication, 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
- **Reinforcement Learning - Coursera**
- **Deep Learning - NPTEL** 12 2023

## ADDITIONAL INFORMATION

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