

# Ram Dhavileswarapu

Data Scientist | Robotics Engineer | Software Developer

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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: [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.

### ◦ 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 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.

## TECHNICAL SKILLS

- **Programming Languages:** Python, C++, CUDA
- **Frameworks:** Scikit-Learn, Pytorch, LangChain, HuggingFace, Kafka
- **Tools:** Git, Docker
- **Databases :** MySQL, MongoDB
- **Others:** AI, System Design, Data Structures and Algorithms




SKILLS

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- Problem-Solving, Communication, Time-management, Collaboration

ACHIEVEMENTS AND ACTIVITIES

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- **4-star in Python**   
*Hackerrank*
- **Solved 200+ coding problems on GeeksforGeeks**   
*GeeksforGeeks*
- **Attended AI Workshop**   
*JNTUK*

CERTIFICATIONS

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- **Robotics - Coursera**
- **GPU Programming - Coursera**
- **Complete Machine Learning, NLP Bootcamp MLOPS and Deployment - Udemy** 08 2024
- **Reinforcement Learning - Coursera**

ADDITIONAL INFORMATION

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

APPLICATION'S OF INTEREST

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