

# 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: [RAG with AI Agent]

08 2024 – 09 2024

Tools: [LangChain, LangGraph, Groq, gemma, Python] 🌐

- ▷ **Optimized response time** by using RAG as a semantic cache: repeated or similar queries are answered from a vector database, bypassing the LLM.
- ▷ **Reduced LLM API calls** and costs by invoking language models only when no relevant cached answer exists.
- ▷ **Augmented capabilities with web search (Tavily)** to handle dynamic, research-oriented queries and ensure the knowledge base stays current.
- ▷ **Built with LangChain, vector databases** allowing modularity and scalability in real-world conversational AI applications.




## TECHNICAL SKILLS

- **Programming Languages:** Python, C++, CUDA
- **Frameworks:** Scikit-Learn, Pytorch, LangChain, HuggingFace, OpenCV, Kafka
- **Tools:** Git, Docker
- **Databases :** MySQL, MongoDB
- **Others:** Machine Learning, Deep Learning, Computer Vision, 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