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) [🌐]**   *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: [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 :** 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