Ram Dhavileswarapu

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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

◦ **Robotics :** SLAM, Path Planning, Perception, Kalman/Particle Filters, (Sensor Fusion, Control Systems), PID Controller
◦ **Programming Languages:** Python, C++, CUDA
◦ **Frameworks:** ROS, gRPC, PyTorch, OpenCV, CMake, catkin
◦ **Tools:** Docker, Git, Gazebo, Carla, Linux
◦ **Databases :** MySQL, MongoDB
◦ **Others:** OS, Parallel Processing, Deep Learning, 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