GANESH KANDIKONDA

📍 Hyderabad, India | 📞 9515067125 | ✉️ ganeshkandikonda125@gmail.com

Summary

Software Developer with 1.5 years of experience in Python, FastAPI, Flask, and PostgreSQL. Skilled in AI/ML with expertise in PyTorch, TensorFlow, and YOLO for real-time object detection and predictive modeling. Hands-on experience with LLaMA for NLP, XGBoost for prediction, and deploying scalable AI-driven solutions. Strong problem-solving abilities and experience delivering AI-integrated backend systems.

Skills

- Languages: Python
- Frameworks: PyTorch, Flask, FastAPI, React, Django
- Databases: PostgreSQL, MySQL
- Tools & Platforms: Docker, Git, Linux, REST APIs, CI/CD
- Other: Computer Vision (YOLO), Machine Learning, NLP (LLaMA), OpenCV, Pandas, NumPy, Data Analysis

Experience

Software Developer | Neemus Software Solutions Pvt. Ltd. | Hyderabad

May 2024 – Present (1.5 years)

- Designed and implemented REST APIs using FastAPI and Flask, improving system performance by 30%.
- Trained and deployed YOLO + PyTorch models for real-time object detection (10 classes, 5k+ high-resolution images per class) for Army defense systems.
- Built ML models with XGBoost for geo-spatial data prediction in Navy projects, integrated with FastAPI + PostgreSQL, and visualized outputs via React and GeoServer.
- Worked on ADRD project involving YOLO-based detection and depth-based height estimation, contributing to model training and frontend visualization.
- Automated PostgreSQL workflows, reducing manual operations by 40% and improving data accuracy.
- Collaborated with a 5-member team to deliver AI-driven and backend projects within deadlines.

Projects

Army Real-Time Object Detection System (Flask + PyTorch + YOLO)

- Developed a Flask-based backend with YOLOv8 + PyTorch for real-time military object detection.
- Trained on 10 object classes with 5,000+ images each .
- Optimized training for high-resolution images and integrated PostgreSQL for logging & analytics.

ADRD Object Detection & Height Estimation (Flask + YOLO + Depth Estimation)

- Trained YOLO-based detection model for target identification in live streams.
- Implemented depth-based calculations for object height estimation.
- Contributed to frontend visualization and integration of detection pipeline.

Navy Geo-Spatial Threat Prediction System (In Progress — FastAPI + XGBoost + React + GeoServer)

- Developing geo-spatial prediction models with XGBoost to predict pirate attacks from map data.
- Building auto-training pipeline with PostgreSQL for predictions & historical logging.
- Integrating LLaMA for interpretable outputs and React + GeoServer (Ubuntu) for visualization.

Education

B.Tech in Electronics and Communication Engineering | AVN Institute of Engineering and Technology | Sep 2023 | CGPA: 6.2

Diploma in Electronics and Communication Engineering | Government Polytechnic, Warangal | May 2020 | CGPA: 6.7

SSC (10th) High School (SSC) ZPHS Mallampally 8.7 CGPA March 2016

Declaration

I hereby declare that the information furnished above is true and correct to the best of my knowledge and belief.

Place: Hyderabad
Signature:
Ganesh Kandikonda