Prasad Suryabhan Gite

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Software Developer | C++ | Full Stack | AI/ML

PROFESSIONAL EXPERIENCE

Freelance AI Engineer   09/2025 – Present
Aurum Innovations   Remote
- Developed end-to-end computer vision pipelines for car damage detection and repair-cost prediction using **PyTorch, CUDA, YOLOv8, TensorRT, ONNX Runtime, and OpenCV**, including data preprocessing, augmentation, GPU-accelerated training.
- Built a local automotive assistant using **Ollama, Llama 3, RAG, and Qdrant**, implementing retrieval workflows and vector search for accurate car-issue troubleshooting within the mobile app.

AI/ ML Intern   07/2024 – 12/2024
Research Internship
- Designed and partially developed an intelligent chatbot leveraging **Retrieval-Augmented Generation (RAG)** and **Large Language Models (LLMs)** for contextual and dynamic responses.
- Integrated **machine learning algorithms** for intent classification and response optimization, with emphasis on enhancing **accuracy and relevance** in real-time interactions.

SKILLS

Programming Languages
C, C++, Python(learning)

Databases & Data Management
MongoDB, DBMS, Data Analysing, SQL

Data Science & ML
Python (Pandas, NumPy, Scikit-Learn), Experience with **model training**, **RAG, LLM** (as an AI/ML intern)

Algorithms, Data Structures
DSA, Object-Oriented Programming, Computer Networks

Full Stack Development
HTML5, CSS3, JavaScript (ES6+), React.js, Node.js, Express.js, RESTful APIs, WebSockets, service oriented architecture(basic understanding)

Professional Tools
Jupyter Notebook, Git, TensorFlow, PyTorch, Figma, Blender, DaVinci Resolve

PROJECTS

AgroVision: Thermal Imaging Drone for Crop Health Monitoring
Thermal Imaging Camera, Python(OpenCV), MATLAB(Image Analysis), ML models(Predictive Crop Health)
- Developed a stable drone platform designed to assist farmers in predicting crop health.
- Gained hands-on experience in hardware integration and thermal image data interpretation for agricultural use cases

SmartPath: Dynamic Routing System for Warehouse Optimization
MongoDB, Express.js, React.js, Node.js, Dijkstra's Algorithm, Websockets
- Built a real-time warehouse routing platform using **React, Node.js, and WebSockets**.
- Implemented **Dijkstra's Algorithm** for dynamic pathfinding and integrated with **Arduino** for real-world adjustments.
- Optimized backend communication using **REST APIs** and reduced routing errors by 30%.

FlowVest: AI-Powered Financial Management Platform for Small Businesses(Ongoing)
React.js, WebSocket, Node.js, MongoDB, LSTM, ARIMA, Banking API(Plaid), Quickbooks, AWS
- Developed backend services with **Node.js and MongoDB** to enable real-time cash flow monitoring.
- Integrated external APIs (Plaid, Quickbooks) and implemented machine learning models via **LSTM, ARIMA**.
- Deployed on **AWS** and built responsive UI using **React.js**.

CERTIFICATES

- Mastering DSA with C++
- Generative AI for Everyone - Coursera
- IBM Data Science Professional Certificate - Coursera
- Database Engineering(RDBMS)
- Full Stack Web Development Certification
- Certificate in English Comprehensive Communication

ACHIEVEMENTS & EXTRACURRICULAR

- Qualified for **Smart India Hackathon (SIH)** internal rounds in 2023 and 2024, leading SDE-focused solution teams.
- Participated in **Citi Bank Inter-College Hackathon**, developed a backend for fintech case study (shortlisted in internal round).
- Volunteered with the Social Welfare and Development Society to assist Maharashtra Police in traffic management and public safety initiatives