

Mohammed Huzaifah (AI/ML Developer)

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Professional Summary

AI/ML Developer with hands-on experience in designing scalable, modular codebases and end-to-end AI pipelines. Skilled in applying LLMs, NLP, RAG, and Generative AI to real-world projects. Built and deployed AI systems leveraging vector search technologies and containerized cloud deployment, with a focus on robust architecture, efficient data workflows, and production readiness.

Skills

Languages & Scripting: Python, SQL, Shell Scripting, Git, JavaScript, C++

LLM Stack: Transformers, RAG, LangChain, CrewAI, LlamaIndex, Hugging Face, OpenRouter

Machine Learning: PyTorch, TensorFlow, Scikit-learn, OpenCV, YOLO, Pandas

MLOps & Backend: FastAPI, Flask, MLflow, DVC, Docker, GitHub Actions, Nginx

Data & Infra Systems: PostgreSQL, MongoDB, Supabase, PySpark, Faiss, Qdrant, AWS ECS/ECR

Work Experience

AI Developer Intern (Full-time, On-site)

Lanciere Technologies

February 2025 – August 2025

- Enhanced an **AI-powered interview platform** with resume parsing, LLM-driven assessments, and real-time proctoring, **reducing hiring cycles by 30%**.
- Build a **fraud detection module**, integrating **YOLOv11**, **OpenCV**, voice analytics, and behavioral pattern recognition to detect cheating during live assessments.
- Contributed to a **real-time virtual classroom** with WebSockets for live lectures and transcription. Embedded an **LLM-based assistant** that delivered instant, context-aware answers to student queries during live lectures by dynamically grounding responses in ongoing discussion.
- Integrated custom STT/TTS and voice cloning modules, improving **transcription accuracy to 90%** and lifelike speech for interactive assessments.
- Designed **multi-agent AI assistants** using **LangChain**, **OpenAI** and **CrewAI** with persistent memory.
- Supported building automation pipelines using **Docker**, **Nginx** and scalable infra on **AWS EC2**; ensured CI/CD readiness. Implemented systems **processing 1000+ daily assessments** with real-time response capabilities.

Project Experience

MindCanvas: (Supabase, LangChain, Cytoscape.js, FastAPI, React, OpenAI) — Built at Hackprix Hackathon

- AI-powered knowledge management system** transforming browsing data into interactive, searchable knowledge graphs with **semantic search** and **RAG-based chatbot** capabilities.
- Achieved **3x faster knowledge retrieval** and **75% improvement** in discovering content relationships.
- Developed a **full-stack application with Chrome extension** for one-click data export and AI content analysis.
- Built interactive graph visualization with clickable nodes revealing detailed content, related links, and clustered connections for enhanced learning retention.

Predictive Maintenance: (MLflow, FastAPI, Docker, AWS ECS/ECR, Scikit-learn, GitHub Actions)

- Achieved **91.2% accuracy predicting equipment failures** using ensemble methods and advanced feature engineering on industrial sensor data, enabling proactive maintenance scheduling
- Deployed **production MLOps pipeline with automated CI/CD** using GitHub Actions, Docker containerization, and AWS ECS, **reducing deployment time from hours to minutes**
- Engineered **robust data processing pipeline** with statistical and interaction features from sensor telemetry, optimizing class imbalance using SMOTE technique
- Implemented **scalable MLOps infrastructure** with MLflow experiment tracking, model versioning, automated retraining, and comprehensive health monitoring

Education

B.E. Computer Science (AI & ML)

Lords Institute of Engineering & Technology

GPA: 8.4

March 2026

Achievements

- Solved **245+ LeetCode problems** (focus: algorithm optimization)
- 900+ GitHub commits** across 50+ personal, internship, and hackathon projects
- Competed in **6+ hackathons**, securing podium placements in 2 events
- Authored **6 technical articles on Medium** covering AI/ML implementations and best practices