Muhammad Rana Areeb Sajid

AI/ML Engineer | Generative & Agentic AI
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Summary

AI/ML engineer building Python applications that use LLMs to retrieve evidence, answer questions, and automate workflows through tool calling. Hands-on experience with LangGraph, FastAPI, Docker, and AWS, with an applied ML background in manufacturing computer vision.

Technical Skills

Generative AI: Python, LangChain, LangGraph, RAG, prompt engineering, function calling, MCP, OpenAI, Ollama

Machine Learning: PyTorch, TensorFlow, Hugging Face Transformers, QLoRA, YOLOv8, OpenCV

Retrieval & Data: Pinecone, FAISS, ChromaDB, PostgreSQL, Supabase

APIs & Deployment: FastAPI, Flask, REST APIs, Docker, Git, GitHub Actions, AWS (Bedrock, S3, ECR, EC2)

Application Integration: React, Next.js, JavaScript, n8n, JWT verification, role-based access control

Experience

LLM Engineer / AI Engineer | Rasovate — Oct 2025 – Present

- Developed RAG pipelines with LangChain, Pinecone, and OpenAI, using hybrid retrieval and prompt tuning to improve answer grounding.
- Built multi-step LangGraph agents that call tools and integrate with internal APIs, databases, and external SaaS applications through containerized FastAPI services.
- Optimized LLM inference through prompt compression, response caching, and retrieval improvements.

Co-Founder & Systems Lead | Rastify Ltd — Feb 2023 – Present

- Automated order management, supplier coordination, and production tracking for an apparel manufacturer.

Digitalization Executive | Forward Sport Ltd — Sep 2022 – Jan 2024

- Deployed YOLOv8 object detection and CNN classifiers for real-time inspection and manufacturing quality control.

Selected Projects

Atlas Enterprise AI | FastAPI, LangGraph, AWS Bedrock, Pinecone, Docker

- Built a reference RAG assistant over S3 documents with source citations, PostgreSQL conversation memory, input/output guardrails, and a human review queue for sensitive requests.
- Configured GitHub Actions to build Docker images, push them to Amazon ECR, and deploy to EC2.

HR Policy Copilot | FastAPI, LangGraph, Pinecone, OpenAI, Tavily

- Built a portfolio copilot that checks retrieved policy evidence, rewrites weak queries, and uses web search as a fallback when internal documents are insufficient.

OmniZoé LMS | FastAPI, React, Supabase, AWS S3

- Developed a French/English learning platform with JWT verification and role-based API access for students, instructors, and administrators.

Handwriting OCR–NLP Pipeline | Python, EasyOCR, GPT-4o, FastAPI

- Combined OCR with a two-agent sentence classifier and code-enforced routing to process noisy handwritten inputs.

Education & Certifications

Bachelor of Engineering in Mechatronics, University of Wah — 2018 – 2022

Gold Medalist (2018 intake)

Selected training: AIFT (Adonan), AI Engineer Core, Production and Agentic tracks, Deep Learning Specialization