

ABDULRAHMAN ALANANI

AI Engineer · LLM Applications · AI Agents · RAG · Computer Vision · Edge AI

Riyadh, Saudi Arabia | +966 548 523 020 | aaalanani.2000@gmail.com | [linkedin.com/in/abdulrahman-alanani](https://www.linkedin.com/in/abdulrahman-alanani) | github.com/aaalanani2000

AI Engineer with a strong foundation in Computer Vision and embedded AI systems, now building production-grade LLM applications, AI integration workflows, and agentic AI systems. Proven track record deploying real models to production hardware and shipping multi-component AI systems — orchestration pipelines, microservices, and bilingual retrieval-augmented generation. Open to Riyadh-based and remote AI engineering roles.

EXPERIENCE

AI/ML Systems Support Engineer | *Problem Solver Org. — Future of Egypt (Egyptian Army), Cairo* Dec 2024 – Dec 2025

- ▶ Built and deployed an anomaly detection model for proactive IT infrastructure monitoring, reducing system downtime by 15% across monitored nodes.
- ▶ Automated routine system diagnostics with Python scripts, cutting average issue resolution time by 20%.
- ▶ Maintained 95% first-contact resolution rate across 200+ monthly hardware/software incidents.

PROJECTS

AI Integration Assessment — Multi-System AI Workflow · [GitHub](#)

- ▶ Built an end-to-end RFQ-to-CRM automation in n8n (Dockerized) integrating an AI extraction step, mock CRM persistence, bilingual (English/Arabic) reply generation, and internal alerting — fully version-controlled as exported workflow JSON.
- ▶ Built a FastAPI quotation microservice with SQLite persistence, bulk pricing logic, 12 passing tests, Docker packaging, and auto-generated OpenAPI documentation.
- ▶ Built a bilingual RAG knowledge service with OpenAI embeddings, cosine-similarity retrieval, mandatory source citations, and explicit refusal logic for out-of-scope questions — validated in both English and Arabic with documented latency/cost metrics.

AI Technical Tutor · [GitHub](#)

- ▶ Built a technical Q&A assistant supporting **two interchangeable LLM backends** (OpenAI GPT and Ollama), featuring **real-time streaming responses**, local inference support, and a unified Python interface.
- ▶ Technologies: Python · FastAPI · OpenAI API · SQLite · Docker · n8n · JSON · REST APIs

AI-Powered Autonomous Drone — Fire Detection & Extinguishing · *Grade: A+ · Graduation Project, Badr University Cairo*

- ▶ Led end-to-end development of a real autonomous drone integrating hardware control and onboard AI for fire suppression.
- ▶ Trained YOLOv8 achieving mAP50 of 0.824 and precision of 0.83 on 754-image validation set; deployed in real-time on Raspberry Pi 3.
- ▶ Technologies: Python · YOLOv8 · TensorFlow · PyTorch · OpenCV · Roboflow · Raspberry Pi · C++

TECHNICAL SKILLS

Programming: Python (Advanced), C++, SQL, Git, JSON, REST APIs

LLM & GenAI: OpenAI API, RAG, Embeddings, Prompt Engineering, Ollama, AI Agents, LLMops

AI / ML: YOLOv8, TensorFlow, PyTorch, OpenCV, Deep Learning, Object Detection, Image Segmentation

AI Frameworks: n8n, Workflow Orchestration, FastAPI, Microservices, API Integration

MLOps & Deploy: Docker, CI/CD for AI, Model Deployment, Monitoring, Testing, Edge AI

Cloud & Platforms: AWS SageMaker, Oracle Cloud (OCI), Google Colab, Roboflow, Raspberry Pi

EDUCATION

Bachelor of Engineering — Computer and Systems Engineering

Graduated Jul 2024

Badr University in Cairo · Degree authenticated by Saudi Ministry of Human Resources (Mosadaqa, 2026)

CERTIFICATIONS & TRAINING

- ▶ **Professional Accreditation Certificate** — Computer Engineer (215204) — Saudi Ministry of Human Resources Jun 2026
- ▶ **LLMOps Specialization** — DeepLearning.AI Sep 2025
- ▶ **LLM Engineering — Full Stack AI Applications** — Ed Donner In Progress
- ▶ **OCI 2025 AI Foundations Associate** — Oracle Sep 2025
- ▶ **AWS Educate Machine Learning Foundations** — AWS Jun 2025
- ▶ **Introducing Generative AI with AWS** — Udacity Jun 2025
- ▶ **Artificial Intelligence Diploma (72 hrs.)** — ITI Cairo Jul 2023

Languages: Arabic (Native) · English (Professional)