Abdullah Talal Aljafari

AI Engineer | Computer Vision, LLMs & MLOps

Irbid, Jordan | aljafariabdullah2005@gmail.com | LinkedIn | GitHub | Portfolio

PROFESSIONAL PROFILE

Artificial Intelligence undergraduate at JUST (GPA: 3.57/4.00) building end-to-end AI systems across bilingual LLM agents, grounded RAG, Arabic NLP fine-tuning, and computer vision. Experienced with model evaluation, FastAPI, Docker, CI/CD, and deployment.

EDUCATION

Jordan University of Science and Technology (JUST) | Irbid, Jordan *2023 – Expected 2027*

B.Sc. in Artificial Intelligence | GPA: 3.57/4.00 (Excellent)

TECHNICAL SKILLS

Programming & ML: Python · C++ · NumPy · scikit-learn · PyTorch · Hugging Face

LLMs, NLP & Agents: RAG · embeddings · FAISS · Chroma · hybrid search · LangChain · LoRA/PEFT · Arabic NLP · NLI · tool calling

Computer Vision: OpenCV · YOLOv8/YOLOv11 · RT-DETR · DenseNet121 · SAHI · ByteTrack · Grad-CAM

Development & MLOps: FastAPI · Pydantic · Streamlit · MLflow · Docker · Git · Linux · GitHub Actions · Azure · Next.js

SELECTED PROJECTS

AAOS | Academic AI OS | GitHub *Aug – Oct 2026*

- Built a local-first bilingual AI assistant with Qwen 4B, hybrid RAG (BGE-M3, Chroma, SQLite FTS5), and NLI-verified citations.
- Retrieved expected evidence for **31/32** answerable bilingual queries; reduced median response time by **39%** (30.0 to 18.4 s) in a three-run evaluation.
- Built approval-gated Calendar tools and Telegram alerts; passed **100/100** frozen agent evaluation cases, including 26 prompt-injection and capability-escape attempts, with zero unauthorized external writes.

JorSenti-LoRA | Arabic Sentiment Analysis | GitHub *Apr 2026*

- Fine-tuned MARBERTv2 with LoRA/PEFT, class-weighted loss, and targeted Jordanian Arabic data augmentation.
- Improved model accuracy from **86.2% to 94.35%** and neutral-class recall from **22.0% to 78.5%** in project evaluations.

TaLibAI | Bilingual RAG Assistant | GitHub *Apr 2026*

- Built an Arabic/English RAG assistant with Arabic-aware preprocessing, FAISS search, cited answers, and quiz generation.

Chest X-Ray Classification & MLOps | GitHub *Feb – Mar 2026*

- Served a DenseNet121 X-ray classifier with Grad-CAM explanations via FastAPI/Streamlit; automated Docker/Azure CI/CD.

AerialGuard | Aerial Object Detection | GitHub *Apr 2026*

- Trained YOLOv11-S on VisDrone; used SAHI tiles for small-object inference and delivered a Streamlit/Docker demo.

Anti-UAV Drone Detection & Tracking | GitHub *Spring 2026*

- Benchmarked YOLOv11-S, RT-DETR-R50, and YOLOv8-M for RGB drone detection; integrated ByteTrack for video tracking.
- Built a four-page Streamlit app with MLflow experiment tracking, Docker packaging, and GitHub Actions CI/CD.

CERTIFICATIONS

Deep Learning Specialization — DeepLearning.AI | Jul 2026 | Credential

Machine Learning Specialization — Stanford / DeepLearning.AI | Jul 2025 | Credential

Generative AI with Large Language Models — DeepLearning.AI | Jul 2026 | Credential

Agentic AI — DeepLearning.AI | Jul 2026 | Credential

Retrieval Augmented Generation (RAG) — DeepLearning.AI | Jul 2026 | Credential

Machine Learning in Production — DeepLearning.AI | Jul 2026 | Credential

LANGUAGES

Arabic — Native · English — Fluent