

# Ahmed Mohammed AL-Ghazali

## AI ENGINEER

Phone number:(+968) 7805 3380 | Email: ahghazali2003@gmail.com | Muscat, Oman

GitHub | LinkedIn | Portfolio

### PROFILE SUMMARY

AI & Software Engineer with a B.Sc. in Artificial Intelligence from Cairo University with strong experience in computer vision, machine learning, and healthcare AI systems. Skilled in building end-to-end AI pipelines, including data extraction, model development, and deployment. Interested in applied AI research, particularly medical image analysis and multimodal learning for real-world healthcare applications.

### EXPERIENCE

#### AI & Software Engineer Intern – AI-Driven Adaptive Learning

National University of Science and Technology – Muscat/Oman

March 2026 – Present

- Developing MindTrack AI, an adaptive learning platform for Level 1 Mathematics, using Bayesian Knowledge Tracing (BKT) to model student mastery and personalize learning paths in real time.
- Design and implement a teacher analytics dashboard with class-level heatmaps and struggling-student alerts triggered by the BKT engine, enabling targeted human intervention.
- Develop a recommendation system that adapts question difficulty based on student mastery and interaction data.
- Build backend components for managing student data, question banks, and performance analytics.

### PROJECTS

#### AnemoCare - AI Anemia Management (Graduation Project)

[10/2024 – 07/2025]

- Led a team to develop a **real-time AI monitoring system** for anemia in hemodialysis patients.
- Developed a **Hemoglobin prediction model (MAE = 0.6)** to assist in treatment optimization
- Integrated **OCR** for medical data extraction, reducing manual entry errors.
- Built a **Flutter mobile app** with role-based access for doctors, nurses, and patients.

#### Fawzy AI – Personal Portfolio & Career Assistant

[1/2026 – 3/2026]

- Built and deployed an LLM-powered assistant that answers questions about my experience, projects, and skills using retrieval augmented generation over my CV and portfolio.
- Implemented the backend in Python with external LLM APIs, custom logging, and evaluation scripts to monitor conversations and iteratively improve responses.

#### LabLens AI - Clinical Lab Report Analysis System

[12/2025 – 1/2026]

- Developed a full-stack medical web application using Django REST Framework to digitize and manage patient lab records.
- Built an OCR pipeline using OpenCV and Google Vision API, achieving 99% extraction accuracy for clinical lab reports.
- Implemented professional data export pipelines, enabling automated generation of branded PDF and Excel clinical reports.

### EDUCATION

#### B.Sc. in Computer and Information (Majored in Artificial Intelligence)

Cairo University — Graduated: July 2025 | GPA: 3.1 / 4.0 (Very Good)

### Skills

- **Programming Languages:** Python, C++, Java, Dart, JavaScript, HTML, CSS, SQL
- **AI & ML:** PyTorch, TensorFlow, Scikit-learn, Keras, OpenCV, OCR, Bayesian Knowledge Tracing (BKT), Deep Learning, NLP, Computer Vision, Reinforcement Learning, Generative AI, Explainable AI (XAI), LLM Integration, Prompt Engineering, RAG (Retrieval-Augmented Generation), FastText, Data Preprocessing, Model Evaluation
- **Frameworks & Tools:** Django, FastAPI, Flask, Next.js, Flutter, LangChain, FAISS, Docker, Git.
- **Languages:** Arabic (Native), English (C1), German (A2)

## Certifications & Achievements

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- **AI for Medicine Specialization** - Deeplearning.AI (in progress)
- **Explainable AI (XAI) Specialization** - Duke University (in progress)
- **Generative AI with Large Language Models** - Deeplearning.AI (2026)
- **Generative AI for Healthcare** - Google Cloud (2025)
- **Understanding Research Methods** - University of London (2025)
- **IBM Machine Learning Professional Certificate** - IBM and Coursera (2024)