

Adel Awad Kazzaz

Software Engineer

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📍 El Beheira, Egypt
"Relocation"

🇪🇬 Egyptian

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Education

Bachelor's degree in Computer Science

Assiut University [🔗](#)

Oct 2021 – Jun 2025

Assiut, Egypt

Languages

Arabic — Native/Bilingual

English — Proficient

Volunteer

Video Editor & OC Member

Google Developer Group Assuit
(GDG) & (GDSC)

Oct 2023 – present | Assiut, Egypt

Contributed to organizing
Devfest'23, Devfest'24 Assiut,
which attracted over 1800
attendees.

Profile

"Enthusiastic about machine learning and leveraging the power of data to drive innovation. Interested in understanding the hidden 'i' of AI, with foundational skills in back-end development. Working to understand the software life cycle and data flow."

Projects

Mini-RAG - RAG Model for Question Answering [🔗](#)

Retrieval-Augmented Generation (RAG)

Dec 2024 – Jan 2025

Developed a production-ready app using FastAPI, LangChain, OpenAI API, and Qdrant Client for efficient question-answering. Managed databases with Dockerized MongoDB and streamlined deployment using Uvicorn and Pydantic.

Brain Tumor Detection Using Custom ResNet152V2 [🔗](#)

Convolutional Neural Network (CNN)

Aug 2024 – Sep 2024

Reimplemented a custom ResNet152V2 model with altered identity and convolutional layers and developed a CNN for classifying brain tumors from MRI images using TensorFlow and Keras. The project included extensive data preprocessing, model development, training, and evaluation. Test accuracy: 91.99%

Attendance System Using Face Recognition [🔗](#)

Python & OpenCV

Mar 2024 – Apr 2024

A Face Recognition application for efficiently recording attendance data and exporting it to an Excel file was developed using Python and OpenCV.

Hospital Management System Assiut University [🔗](#)

Asp.NET Web Application

Nov 2023 – Mar 2024

Handled the project's login, authentication, and front-end customization.

Skills

Machine Learning and AI

MLOps Concepts, Gradient Descent, Linear Regression, TensorFlow, Keras, LangChain for LLM.

Tools

Git, GitHub, Docker, Wsl, Linux.

Data Analysis and Visualization

NumPy, Pandas, Data Analysis, Datasets Clean, Data Visualization, matplotlib.

Databases

SQL, MySQL, MongoDB.

Programming Languages and Frameworks

Python, C++, C#, ASP.NET, MVC, Tkinter, FastAPI.

Computer Science Fundamentals

Problem-Solving, Data Structures, Algorithms, OOP, Operating Systems, Networks.

Scholarship and Internship

Microsoft Machine Learning Engineer

Round 2 Digital Egypt Pioneers Initiative (DEPI)

Oct 2024 – present | Online

- Completed a comprehensive training program covering **Prompt Engineering, Machine Learning, NLP with Attention Models, GANs**, and **MLOps** tools like **MLflow** and **Hugging Face**.
- Earned certifications in **Azure AI Fundamentals** and **Azure AI Engineer Associate** while gaining hands-on experience with **Microsoft Azure** for scalable AI solutions.
- Developed a capstone project showcasing end-to-end machine learning implementation.

Software Engineer Scholarship

ALX Africa

Nov 2023 – Sep 2024

Gained skills in shell scripting, Git, Emacs, Vi, and C programming (recursion, memory management, and file I/O) during ALX training. Developed skills in data structures such as linked lists, built static libraries, and enhanced professional networking and online presence.