Mohamed Elgazar

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Summary

A highly motivated AI engineer with hands-on experience in machine learning, deep learning, and data-driven solutions. Skilled in developing end-to-end AI applications, from model training to deployment using modern tools and frameworks. Having experience in full-stack web development to build intuitive user interfaces and seamless integrations. Passionate about solving real-world problems through innovative AI approaches, with a strong foundation in Python, data analysis, and cloud deployment. Proven ability to work collaboratively in teams and deliver impactful, production-ready projects.

Education

Tanta University, BS in AI Engineering   Oct 2022 – May 2027

- GPA: 3.96/4.0
- **Coursework:** Machine Learning, Deep Learning, Neural Networks, Data Structures, Operating Systems, Computer Architecture, Databases, Microprocessors & Microcontrollers

Experience

Machine Learning Engineer (Depi Training Program), Microsoft – Remote   Jun 2025 – Jan 2026
Under the supervision of EYouth Co.   *AI & Data Science Track*

- Completed a hands-on training program focused on Microsoft's AI and Data Science tools and pipelines
- Built and deployed ML models using supervised learning algorithms to solve classification problems
- Gained practical experience with Azure ML, data preprocessing, and model evaluation techniques

Projects

Brain Tumor Classification and Care   [Github Repo](#)

- Improved a CNN-based model to classify brain tumors from MRI scans with high accuracy.
- Compared performance of TensorFlow and PyTorch implementations on the same dataset
- Integrated a care recommendation system and built an LLaMA 3-powered chatbot for post-diagnosis assistance
- Designed a user-friendly interface to visualize predictions, confidence scores, and interact with the care assistant
- **Tools Used:** Python, TensorFlow, PyTorch, LLaMA 3, HTML/CSS, Flask, Open WebUI

Expenses Tracker Web App   [Github Repo](#)

- Developed a full-stack web application to manage income and expenses with JWT-based authentication.
- Implemented features for adding, editing, deleting, and categorizing transactions, with real-time data visualization.
- Built a responsive and accessible UI ensuring smooth user experience across devices.
- Designed system architecture diagrams using Excalidraw and created UI/UX mockups in Figma.
- **Tools Used:** React, Next.js, Tailwind CSS, Node.js, Express.js, MongoDB, Chart.js, JWT, Figma, Excalidraw.

Supermarket Database System   May 2024

- Built a relational database using SQL to manage customers, orders, and inventory
- Designed an ER diagram and applied constraints and joins to ensure data integrity

Client-Server Chatbot   May 2025

- Developed a real-time chatbot using Python sockets and Flask, supporting multiple clients via multithreading
- Integrated LLaMA 3 through Groq API with per-user chat history and a simple web interface
- **Tools Used:** Python, Flask, Sockets, Multithreading, LLaMA 3, Groq API, HTML/CSS

Skills

Programming Languages: Python, C++, C#, JavaScript, TypeScript, SQL, HTML/CSS

AI & Machine Learning: Scikit-learn, TensorFlow, PyTorch, OpenCV, NumPy, Pandas, CNNs, transfer learning, model evaluation, clustering, regression, NLP (LLaMA, OpenAI API, Groq)

Development & Deployment: React, Node.js, MongoDB, Flask, FastAPI, REST APIs, Docker, CI/CD, socket programming, client-server architecture

Soft Skills: Problem Solving, Critical Thinking, Adaptability, Creativity, Initiative, Time Management, Client Communication, Teamwork

Languages

Arabic: Native   **English:** Professional Proficiency