Mohamed Mohy

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Professional Summary

Detail-oriented Data Science student with a solid foundation in data analysis, machine learning, and Python. Eager to leverage analytical skills to drive data-informed decision-making and contribute to impactful projects. Seeking hands-on experience to advance in the field through continuous learning.

Education

Helwan University   Sep. 2021 – July 2025
Faculty of Science   *Bachelor of Statistics and Computer Science | GPA: 3.58*

Experience

Teaching Assistant in Mathematics   Fall 2025
Canadian International College   *Cairo, Egypt*

Teaching Assistant in Mathematics   Fall 2025
Arab Academy for Science,Technology and Maritime Transport   *Cairo, Egypt*

Teaching Assistant in Computer Science and Statistics   Fall 2025
Helwan University   *Helwan, Egypt*

Freelance Programmer/app Developer   Jun 2024 – Present
Freelancer

- Developed and deployed Python-based applications leveraging machine learning algorithms to solve real-world problems, including data classification, prediction, and automation tasks.
- Built and optimized deep learning models using frameworks such as TensorFlow and PyTorch, improving model accuracy and performance for client projects.
- Conducted end to end data science workflows from data collection and preprocessing to visualization and insight generation — enabling data-driven decision-making for businesses.

Information Technology Institute (ITI)   July 2024 – August 2024
AI Engineer Intern

- Mastered Python fundamentals and core libraries such as NumPy, Matplotlib, Seaborn, and Plotly.
- Developed skills in mathematics for AI, including probability, statistics, and linear algebra (matrix operations, eigenvectors, etc.).
- Built interactive data dashboards and visualizations for real-time data exploration.
- Completed real-world AI projects including predictive modeling, image classification, model evaluation, and neural network development using TensorFlow and Keras.

Skills

- Python
- Git & Github
- Power BI
- R programming
- Problem Solving
- Machine Learning
- Data Analysis
- Automation
- SPSS
- Report Generation
- Data Analysis
- Project management

Projects

LLM Prompt Engineering and RAG for Text Classification | *Python, LLMs, RAG*   January 2026

- Benchmarked prompt engineering techniques for LLM-based text classification.
- Improved low-accuracy prompts using Retrieval-Augmented Generation and self-consistency reasoning.
- Achieved up to 98.8% accuracy without fine-tuning the underlying model.

DoctBot (medical chatbot) | *Python, Langchain, FastAPI*   September 2025

- Developed a retrieval-augmented medical chatbot using FastAPI and Ollama LLM.
- Implemented semantic search on Arabic medical data to retrieve relevant symptoms and diagnoses.
- Generated concise advice and summaries for initial guidance while emphasizing professional review.

Math Solver AI Bot | *Python, Streamlit, Langchain, RAG*   May 2025

- Designed and integrated a custom knowledge base to support accurate query handling.
- Developed a Streamlit interface allowing users to input queries seamlessly.
- Delivered real-time, step-by-step solutions, enhancing user experience and accessibility.