

Hussein Mohamed Elhaddad

AI Engineer

Zahraa El-Maadi, Cairo, Egypt | +20 150 586 4761 | hussein.elhaddad@outlook.com

github.com/HusseinElhaddad | linkedin.com/in/husseinelhaddad

Summary

Final-year Computer and Communication Engineering student building data and AI systems with Python, SQL, machine learning, and RAG. Built an individual Olist capstone at Atos using 1M+ raw source records and implemented tested feature pipelines for a graduation-project AI marketing platform (in development).

Education

Capital (Helwan) University

B.Eng. in Computer and Communication Engineering

2022 – Jul 2027 (Expected)

Faculty of Engineering

Technical Skills

Programming: Python, SQL, C++; data structures and algorithms

Machine Learning: Scikit-learn, TensorFlow, pandas, NumPy; feature engineering, model evaluation, NLP, RAG, prompt engineering

Data & Applications: SQL Server, PostgreSQL, ETL, data warehousing, Power BI, Streamlit; project experience with FastAPI, Snowflake

Development: Git, GitHub, GitHub Actions, Linux

Experience

Data Engineering Intern

Jul – Sep 2026

Atos

Hybrid

- Built an individual Olist data platform using Python and SQL Server, processing 1M+ records through validated staging, transformation, and warehouse pipelines.
- Implemented paginated FastAPI ingestion, SCD Type 2, idempotent transactional loads, scheduling, audit and data-quality logging; delivered automated tests and a four-page Power BI report.

Software Engineering Intern

Jul – Aug 2025

EJADA Systems Ltd.

Hybrid

- Completed ServiceNow training and contributed to an internal IT and HR operations platform using tables, forms, and service-management workflows.

Selected Projects

Sawakli AI – Marketing Analytics Platform

May 2026 – Present

Team Lead / AI Engineer | Python, PostgreSQL, SQLAlchemy

- Lead a six-member graduation-project team; completed organization-scoped PostgreSQL and CSV data loaders with a shared, typed input contract for downstream AI modules.
- Implemented deterministic efficiency metrics, 7-/14-day rolling CTR/CPC, and daily trends; validated missing-data handling, tenant isolation, and CSV/database equivalence with unit and integration tests using 360 campaign-day records.

FPL-Intel – Fantasy Football Analytics Assistant

Apr 2026

Project Lead | Python, RAG, ChromaDB, Streamlit

- Led a six-member team developing an assistant combining ML-based player scoring with retrieval of football news; implemented the RAG component and deployed the Streamlit application.

Training & Certifications

Machine Learning Engineer Training - DEPI

Jun – Dec 2025

- Completed training in ML, deep learning, NLP, and computer vision; contributed frontend development to So3ratk, a team food-detection application supporting image uploads and visualization of YOLO predictions.

NVIDIA DLI Generative AI Summer Training – ITI

Aug – Sep 2025

35 hours covering Python, generative AI, prompt engineering, LLM applications, and RAG.

AWS Certified Cloud Practitioner

Leadership

HCC - Founding & leadership / FEHU-CPC - Mentor, then HR Head

Founding and organizational leadership at HCC; community operations and technical learning initiatives.

FEHU-CPC: problem-solving mentor, subsequently HR Head across two waves.

Languages

Arabic: Native English: C2 (EF SET reading/listening)