

Mohamed Morsi Genena

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WORK EXPERIENCE

SynQanun

AI Engineer Intern

Cairo, Egypt

Feb 2026 – Apr 2026

- Assisted in developing production RAG systems over a 1M+ document legal corpus, leveraging agentic AI patterns to enable accurate context retrieval for legal query answering and automated document drafting.
- Optimized the drafting agent's edit tool to enable chunk-based document editing, reducing average LLM token consumption by 67% and lowering inference cost at scale.

Digital Egypt Pioneers Initiative (DEPI)

Data Engineer Trainee

Cairo, Egypt

Jun 2025 – Nov 2025

- Led the data engineering team in a megaproject selected by DEPI to design a cloud-based data pipeline for Qanouny.
- Architected data lake and warehouse solutions using ETL/ELT workflows on Microsoft Azure and AWS.
- Engineered a fully automated data pipeline that scraped and processed 100+ LinkedIn job postings via REST API, applied a SpaCy NLP model to extract and classify in-demand skills and stored results in DuckDB.

EDUCATION

Faculty of Engineering – Ain Shams University & University of East London

Bachelor of Science in Electrical Engineering; Major in Computer and AI Engineering

Cairo, Egypt

Sep 2023 – Expected 2027

Cumulative GPA: 3.94/4.0 (Top of Class)

Badr Language School

Secondary School Diploma (Thanawya Amma)

Cairo, Egypt

Sep 2022 – Jul 2023

Grade: 403.5/410 (Top #20 in Egypt)

SELECTED PROJECTS

[Generative Diffusion Model for Human Faces](#)

- Implemented the "Denosing Diffusion Probabilistic Models" paper and open-sourced the training code on GitHub.
- Trained a 3-level U-Net architecture with residual connections, multi-attention heads, encoder-decoder pathways, and skip connections on 20K images of the CelebA dataset.

[Stock Market Tweets Sentiment Classification](#)

- Deployed a fine-tuned sentiment classification model on AWS SageMaker, exposing an endpoint for classification.
- Built a cloud-native ELT pipeline scraping 30K+ daily tweets from X, classifying sentiment via the SageMaker endpoint, and visualizing insights on an Amazon QuickSight dashboard.

[Web-Based 3D Space Orrery \(NASA Space Apps Hackathon\)](#)

- Launched an interactive 3D web application, visualizing a scale-accurate model of the solar system and near-earth objects using Three.js and React.
- Integrated NASA API for real orbital data and deployed to production within a 48-hour hackathon window.

CERTIFICATIONS

Huawei – HCIA-AI V-3.5 – Artificial Intelligence

DeepLearning.AI – Machine Learning Specialization

Amazon Web Services – Certified Cloud Practitioner

British Council – IELTS English Proficiency (Band Score 8 / C1)

TECHNICAL SKILLS

Programming Languages: Python, C++, JavaScript, TypeScript, Java

ML/DL: Transformers, CNNs, SVM, Decision Trees, Naive Bayes

Libraries & Frameworks: TensorFlow, PyTorch, Flask, FastAPI, LangChain, CrewAI, React

Tools & Platforms: Linux, Git, Docker, AWS, Azure

EXTRACURRICULAR ACTIVITIES

Student Orientation Speaker

- Volunteered at Ain Shams University's student orientation to welcome and support new students.
- Led student orientation talks at Ain Shams University, delivering guidance to 300+ incoming students on academic life.

Volunteer Programming Mentor

- Mentored 30+ freshmen students in the CSE141 – Introduction to Computer Programming course.
- Helped peers improve their academic performance and confidence in basic programming concepts, data structures and computer algorithms.