

Yahia Mohamed

Junior AI Engineer

+201090124061 | yahia.edu500@gmail.com | Cairo, Egypt | <https://www.linkedin.com/in/0yr003> | <https://github.com/Yahia0mohamed>

Professional Summary

AI Engineer with proven experience in LLM development, RAG systems, and production ML deployment. Specializes in building scalable AI solutions using Python, PyTorch, and modern MLOps practices.

Work Experience

Mimar Group

Cairo, Egypt

AI & Software Engineering Intern

Mar 2025 – Jun 2025

- Developed MIMO, a desktop tool that automates element naming in Autodesk Revit using a Retrieval-Augmented Generation (RAG) system.
- Integrated AI with Revit API to improve model consistency and reduce manual workload for architectural teams.

DEPI

Cairo, Egypt

Data Engineering Intern

Apr 2024 – Aug 2024

- Built ETL pipelines to prepare data for training and evaluating AI models used in real-world applications.
- Created and managed MS SQL databases for structured user and activity data in a social media platform.
- Designed a data warehouse to support long-term trend analysis and seasonal forecasting.

Education

Cairo University

Cairo, Egypt

BSc in Computer and Artificial Intelligence GPA: 3.0/4.0

Sep 2021 – Jul 2025

Key Projects

Thotron – AI-NVC (Graduation Project – Grade: A+) *Faculty of Computers and AI, Cairo University*

- Developed an AI-powered video editing platform enabling both manual and automated content creation.
- Built dual-mode system: timeline-based editing and AI-driven video generation via the YouTube API.
- Fine-tuned LLaMA 3.2 1B and integrated T5 for transcript segmentation, summarization, and relevance scoring.
- Implemented structured PDF generation with extracted keywords, transcript snippets, and summaries.
- Built full-stack architecture using React, .NET, MongoDB, and containerized with Docker.

MIMO – BIM Automation Assistant

Mimar Group

- Built an AI assistant for Autodesk Revit to automate element naming in BIM workflows.
- Used LLaMA 3.2 1B to generate context-aware, standards-compliant names using RAG techniques.
- Improved model consistency and reduced manual effort for architectural teams.

Linkee – Social Media Platform

Independent Project

- Developed a scalable social media platform with real-time interaction features.
- Built core functionalities including authentication, posting, chat, and profile management using Django.
- Designed relational schema and managed data operations with MS SQL for performance and reliability.

Certifications

- Huawei HCIP AI

Skills

Programming Languages: Python, JavaScript, SQL

AI/ML Frameworks: PyTorch, TensorFlow, Scikit-learn, Transformers, LangChain, Hugging Face

Specialized AI: Large Language Models, RAG Systems, Fine-tuning, Deep Learning, NLP

Data & Databases: MS SQL Server, MongoDB, Pandas, NumPy, ETL Pipelines, Data Warehousing

Web Development: React.js, Redux, Django, Django REST Framework, .NET Core, FastAPI, REST APIs

Cloud & DevOps: Docker, Git/GitHub, MLOps, API Development, Model Deployment

Development Tools: VS Code, Jupyter Notebooks, Postman

Concepts: Retrieval-Augmented Generation, Full-Stack Development, SOLID Principles, OOP

Languages

Arabic: Native/Bilingual

English: Proficient