

HASAN ABDELHADY

AI ENGINEER – CAIRO, EGYPT

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Experience

Full Stack Developer

Mar 2024– Present

Carbonless

Mansoura, Egypt

- Delivered the company’s inaugural website from concept to launch in 4 months.
- Implemented SEO strategies to achieve top search rankings and generate media inquiries.
- Automating content creation and social media operations using AI.

Huawei ICT Academy Ambassador

Jan 2025– Present

Huawei

Mansoura, Egypt

- Growing Huawei’s presence at the Faculty of Engineering, Mansoura University.
- Organizing educational workshops on AI and Datacom for students.
- Coordinating Huawei’s events at the Faculty of Engineering.

Python for Web Development Intern

Aug 2024– Sep 2024

ITI

Mansoura, Egypt

- Implemented a full-stack e-commerce simulation using Django and PostgreSQL.
- Designed the multi-table database schema for the application.
- Built a CLI tool in Python to simulate crowdfunding platform functionalities using OOP.

AI Engineering Intern

Sep 2023– Oct 2023

Baianat

New Damietta, Egypt

- Leveraged AI algorithms to build full-stack web applications.
- Attended workshops on AI and its various applications.

Recent Projects

GuideMe (AI-Powered Educational Platform) | Django, PostgreSQL, Gemini, Langchain, RAG, Sentence Transformers

- Led a 9-member team in architecting and developing a full-stack AI educational platform.
- Directed the LLMops lifecycle, from model selection (Gemini, Llama3) to developing agentic chains from scratch.
- Engineered and tested a RAG pipeline using Sentence Transformers and pgvector for contextual querying.
- Implemented a real-time chat experience using Server-Sent Events (SSE) for AI agent interaction.
- **Demo:** [Video](#)

ChatGPT-like Interface with Groq API | Django, Groq API, TailwindCSS, JavaScript

- Built a customizable, open-source ChatGPT-like interface with Django and the Groq API.
- Implemented multi-turn conversations with session memory and real-time streaming via Server-Sent Events (SSE).
- **Source:** [GitHub](#)

Custom Variation of Differential Evolution using Deep Learning | Evolutionary Algorithms, Pytorch, Python

- Implemented a novel Deep Learning-enhanced Differential Evolution algorithm from scratch.
- Achieved a 45% convergence improvement over the original algorithm.
- **Source:** [GitHub](#)

Soilitical (Smart Agri AI) | Python, Scikit-learn, SQLite

- Directed a 5-person team in developing and validating a predictive crop recommendation model.
- Engineered the model using synthetic weather and soil data, achieving 96% prediction accuracy.
- **Demo:** soilitical.netlify.app — **Source (Web):** [GitHub](#)

Skills

Languages & DBs: Python, C, JavaScript, SQL, PostgreSQL, SQLite

AI/ML: PyTorch, Scikit-learn, LLMs, LLMops, RAG, NLP, Langchain, Huggingface, Pandas, Numpy

Web & Tools: Django, Flask, ReactJS, TailwindCSS, Git, GitHub, Github Actions, Docker, Linux

Awards

Climate Launchpad | Global Climate Innovation Competition

2024

- Won 1st Place (Africa) & 2nd Place (Asia Pacific) with [VerTechX](#).
- Presented the winning pitch to judges at the finals.

Education

Mansoura University

Oct 2020 – Jul 2025

BSc Degree in Artificial Intelligence Engineering, Mansoura, Egypt

- GPA: 3.45/4.0 — Focus on Computer Science, AI, and Mathematics