

# Mahmoud Ayman Abdelmohsen

AI & Machine Learning Engineer | Cairo, Egypt | [mahmoudaymann153@gmail.com](mailto:mahmoudaymann153@gmail.com) | +201226076904

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## Professional Summary

Electronics & Communication student (graduating 2026) and aspiring AI/ML engineer. Delivered **100+ freelance projects** mainly in web development for Saudi clients, plus early ML work. Building strong AI foundations through projects and an AI & ML diploma (NLP, CV, LLMs, Generative AI) while leading Swift Technology.

## Professional Experience

Chief Executive Officer (Part-time), <a href="#">Swift Technology</a> – Remote (Ontario, Canada)	Nov 2023 – Present
Led a small remote tech team delivering web solutions for international clients (part-time alongside studies).	
Freelance Web Developer & Jr. ML Engineer, Upwork   Khamsat – Remote	Jan 2022 – Present
Delivered <b>100+ freelance projects</b> mainly in web development (Laravel, responsive UI) for Saudi clients, including one production ML model and several ML prototypes; built <b>15+ production websites</b> with <b>95%+ client satisfaction</b> .	

## Education

Bachelor's in Electronics & Communication Engineering	Aug 2021 – Aug 2026
Al Safwa High Institute of Engineering – New Obour City, Egypt (Expected Graduation: Aug 2026)	
AI & Machine Learning Diploma, AMIT Learning – Maadi, Cairo	Dec 2024 – Present
Advanced track: NLP, Computer Vision, LLMs, Generative AI. Building end-to-end ML systems using PyTorch, TensorFlow, Keras	

## Technical Skills

**ML/DL:** Supervised/Unsupervised Learning, CNNs, RNNs, LSTMs, Transformers, GANs, Transfer Learning | **Computer Vision:** Object Detection, Segmentation, OpenCV | **NLP:** BERT, GPT, LLMs, Sentiment Analysis | **Programming:** Python, SQL | **Frameworks:** PyTorch, TensorFlow, Keras, scikit-learn, FastAPI, Flask, Hugging Face, OpenCV | **Software Engineering:** Design Patterns, Testing (PyTest), Git, CI/CD, REST APIs | **Databases:** SQL | **Vector Databases:** Pinecone, FAISS | **MLOps:** Model versioning, deployment, API operations

## Featured Projects

### [Blood Cell Diagnostics](#)

+95% accuracy on 17K+ images (8 classes) via custom PyTorch CNN; Flask API/UI, containerized deploy. **Tools:** Python, PyTorch, OpenCV, Flask, Railway

### [Boston Housing Price Prediction](#)

Decision Tree ML + Flask REST API; **78.8% R<sup>2</sup>**. **Tools:** Python, Flask, scikit-learn, Railway

## Certifications

Machine Learning with Python, IBM via Coursera	Jul 2025
Introduction to Deep Learning & Neural Networks with Keras, IBM via Coursera	Jul 2025
Deep Learning with Keras and TensorFlow, IBM via Coursera	Aug 2025
Introduction to Neural Networks and PyTorch, IBM via Coursera	Jul 2025
ARTIFICIAL INTELLIGENCE ENGINEER 1, Coursera	

## Languages

**Arabic:** Native | **English:** Professional working proficiency

## Additional Information

**Portfolio:** [mahmoudayman.me](http://mahmoudayman.me) | **Upwork:** [Profile](#) | **Availability:** Full-time (post-graduation) or internship