

MOAAZ ANWAR SOLIMAN

AI ENGINEER

✉ moaazanwarsoliman@gmail.com ☎ +201116823857 +201014397578 📍 Egypt, Menofia

🔗 github.com/Animo-GD 🔗 linkedin.com/in/moaaz solomon/

OBJECTIVE

I am motivated to engage in a new experience in the field of AI and Machine Learning, expand my horizons of knowledge, and gain experience from experts on the ground. I am looking for a training opportunity as a fresh graduated to gain experience from experts in this field and work on real-world projects.

EDUCATION

Faculty of Electronic Engineering – Menoufia University Major: Computer Science and Engineering	2019 – 2025
National Telecommunication Institute (NTI) Completed 120 hours of intensive training in artificial intelligence , covering machine learning, deep learning, computer vision, and natural language processing.	09/2023 – 11/2023
Information Technology Institute (ITI) Gained hands-on experience in Internet of Things concepts, including sensor integration, data collection, communication protocols, and real-time monitoring systems.	08/2024 – 09/2024

Courses

Python, HackerRank Demonstrated proficiency in Python programming through problem-solving and algorithmic challenges.	09/2023
AI For Everyone, DeepLearning.AI Developed understanding of AI concepts, capabilities, and societal impacts for strategic and practical applications.	10/2023
Linear Algebra for Machine Learning and Data Science, DeepLearning.AI Learned essential linear algebra concepts for understanding and implementing ML and data science algorithms.	11/2023
TensorFlow Serving with Docker for Model Deployment, Coursera Gained experience deploying ML models using TensorFlow Serving in Docker for scalable and efficient inference.	11/2023
Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning, DeepLearning.AI Acquired skills in building and training neural networks with TensorFlow for various AI applications.	02/2024
Supervised Machine Learning, DeepLearning.AI, Stanford CPD Learned regression, classification, and model evaluation techniques to build and optimize predictive models.	03/2024

Gained expertise in regularization, optimization, and advanced ML models to improve performance and reduce overfitting.

SKILLS

Programming Languages

Python, C++, C#, Java

Data Analysis

Pandas, NumPy.

Deep Learning

ANNS, CNNs, RNNS, GANs.

NLP

Nltk, Scapy, LLM, LangChain, RAG

Tools

Jupyter, google colab, PyCharm, Robowflow, Hugging Face, GPT4ALL, OLLAMA.

Version Control

Git/GitHub.

Communication

Excellent verbal and written communication skills

ML & DL Libraries

TensorFlow, Keras, scikit-learn.

Data Visualization

Matplotlib, Seaborn, Plotly.

Computer Vision

OpenCV, YOLO, Mediapipe, Dlib, Stable Diffusion.

Deployment

FastAPI, Docker.

Databases

SQL, Analysis and Design.

Problem Solving

Strong analytical and problem-solving skills.

PROJECTS

Power Optimization and Predictive Maintenance Smart System, *Graduation Project - Grade: A+*

Developed an intelligent system that leverages AI and sensor data to monitor and optimize power consumption in industrial environments. The solution predicts future electricity usage to reduce energy waste and provides real-time recommendations to enhance efficiency. It also includes a predictive maintenance module that detects potential machine failures before they occur, minimizing downtime and repair costs.

Football Analysis

- YOLOv5 for training, I managed to get a model to track players, ball, referees, and goalkeepers.
- Supervision module to track objects and save all objects in dictionary.
- OpenCV for visualization and to calculate the player speed, overall distance run by the player, camera movement, etc...

Face Mask Detection

Using Transfer learning and computer vision I managed to develop a face mask detection: with this project I have raised my skills in computer vision and transfer learning.

Construction Site Safety Detection

Using the YOLOv8 large model to train a custom dataset that contains 16 classes including helmet, safety vest, safety boat, hat, mask, no vest, no helmet... to detect the site safety requirements.

Attendance Detector

Using Dlib to detect face landmarks and face encoding to detect some faces then record the attendance time of every person in a CSV file.

House Pricing Website

Developed a dynamic web application for predicting house prices using **HTML**, **CSS**, and **JavaScript** for the frontend, **FastAPI** for the backend, and **machine learning models** for accurate price estimation. Containerized the application with **Docker** for easy deployment and scalability.

Image Filter App

Built a desktop application with **Tkinter** for the GUI, implementing **linear filtering**, **edge detection**, and **image segmentation** using **OpenCV** for image processing.

Safety Helmet Detection

Developed a real-time safety helmet detection system using **YOLOv7** and **OpenCV** to identify helmet compliance, enhancing workplace safety monitoring.

Airline System

Built a CRUD-based airline management system in **Java** with **Apache (Derby) database** for reservations, flights, and passengers; designed system architecture with **UML diagrams** (use cases, class, sequence) to ensure clear, maintainable design.

INTERNSHIP

قفزة Qafza Completed hands-on training in MLOps based on the <i>Designing Machine Learning Systems</i> book, covering ML system architecture, deployment pipelines, monitoring, and scalability best practices.	10/2024 – 03/2025
LetsGrowMore Completed a one-month internship applying data analysis , machine learning , and data visualization techniques to real-world projects, enhancing model accuracy and actionable insights.	11/2023 – 11/2023
TechnoHacks EduTech Completed a one-month internship focusing on data cleaning , exploratory data analysis , and visualization to derive meaningful business insights from datasets.	10/2023 – 10/2023

LANGUAGES

- Arabic
- English