

Maha Moftah

AI and Machine Learning Engineer

✉ mahamoftah19@gmail.com

☎ +20 102 4752053

📍 Cairo, Egypt

🌐 mahamoftah

🔗 mahamoftah

Profile












Passionate AI and Machine Learning Engineer. Have a robust knowledge in AI, Machine Learning, Deep Learning, Computer Vision, Natural Language Processing and Generative AI. Dedicated to ongoing learning in AI. Very interested in working on new, diverse, challenging and real-world projects to gain huge experience.

Education

10/2023 – 07/2024
Giza, Egypt

9-Month Diploma, Professional Training Program, AI and ML Track,
Information Technology Institute (ITI), Smart Village Branch

Projects

- **Speech to Speech Avatar** 
Tools: NVIDIA Omniverse Audio2Face, HuggingFace, Ollama API, LangChain, Gemini API, Groq API, OpenAI API, Pinecone, FAISS, Azure.
- **Customer Churn Segmentation** 
Tools: Pandas, NumPy, Scikit-learn, SciPy, Optuna
- **Homonyms Problem in Sentiment Analysis** 
Tools: Pandas, Scikit-Learn, TensorFlow, RE, Groq, Transformers
- **Arabic POS Tagging** 
Tools: Pandas, Scikit-Learn, TensorFlow, Networkx
- **Retinal Vessels Segmentation** 
Tools: PyTorch, TensorFlow, Segmentation-Models, Flask
- **Arabic Dialect Detection** 
Tools: TensorFlow, Scikit-learn, SpaCy, Optuna, Flask, Render
- **Employee Burnout Rate Analysis** 
Tools: Scikit-Learn, Pandas, Plotly Express, Dash
- **Gender Differences in Choosing Jobs and Departments on Glassdoor** 
Tools: Pandas, SciPy, NumPy, Seaborn.
- **Bank Customer Segmentation** 
Tools: Pandas, NumPy, Matplotlib, Scikit-learn.
- **Movie Recommendation System** 
Tools: Factorization Machines, Scikit-learn, PyTorch, Pandas, Dash.
- **Toxic Comment Classification** 
Tools: NLTK, SpaCy, Gensim, Scikit-learn, Optuna

08/2019 – 07/2023
Cairo, Egypt

Bachelor of Computers and Artificial Intelligence, *Helwan University*

- Cumulative GPA: 3.93, Excellent with Honors.
- Graduation Project: A+

Professional Experience

10/2024 – present Cairo, Egypt	Machine Learning Intern, Si-Vision <ul style="list-style-type: none">FastAPI, Python, REST APIs, Async Programming, API Testing (Postman), LoggingMongoDB, Redis, Qdrant, AWS (S3)OpenAI, Perplexity, LangChain, Prompt Engineering, RAG, Semantic SearchMicroservices Architecture, Design PatternsChatbot Development, Multi-Agent System, RBAC (Role-Based Access Control)
-----------------------------------	---

Courses

04/2024 – 04/2024	AWS Academy Machine Learning Foundations , <i>AWS Academy</i>
02/2024 – 03/2024	AWS Academy Cloud Foundations , <i>AWS Academy</i>
01/2024 – 01/2024	IBM Databases and SQL for Data Science with Python , <i>Coursera</i>
09/2022 – 10/2022	Artificial Intelligence Intern , <i>National Telecommunication Institute</i>
05/2022 – 07/2022	Machine Learning with scikit-learn , <i>Datacamp</i>
07/2020 – 09/2020	SQL Fundamentals Track , <i>Datacamp</i>

Technical Skills

Programming

Python, C, C++, Java, OOP, Data Structures, Algorithms, Problem Solving, PHP

Machine Learning

Supervised, Unsupervised, Reinforcement

Mathematics

Linear Algebra, Probability, Statistics

Deployment

Docker, FastAPI, Flask, Streamlit, Render, Dash

Data Analysis

Data Exploration, Data Preprocessing, Feature Engineering, Data Mining

Natural Language Processing (NLP)

NLTK, SpaCy, Gensim, GenAI, Speech Recognition.

Computer Vision

OpenCV, YOLO, GenAI, Digital Image Processing

Recommender Systems

Data Visualization

Matplotlib, Seaborn, Plotly, Power BI

Python Libraries

NumPy, Pandas, SciPy, Pickle, Optuna, Qiskit

ML/DL Libraries

Scikit-Learn, XGBoost, TensorFlow, PyTorch, Keras

MLOps

DVC, MLflow, CI/CD

Databases

SQL, NoSQL

Big Data

Hadoop, PySpark, Airflow, Hive, Kafka

Deep Learning Architectures

CNN, RNN, LSTM, GRU, VAE, GAN, Transformer

LLMs

RAG, CoT, LoRA, RLHF, HuggingFace, LangChain, Vector DBs, Similarity Search, Prompt Engineering

Time Series

Analysis, Forecasting

Others

Git, GitHub, GitLab, Azure, AWS, Postman, Selenium, UiPath, Linux

Languages

Arabic

English