

Ahmed Mohamed Abdulsalam

AI / Machine Learning Engineer

[LinkedIn](#) [GitHub](#) [Portfolio](#)

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Military Status: Completed

Machine Learning Engineer and Computer Science graduate with expertise in developing AI solutions using Python, TensorFlow, and PyTorch. Skilled in end-to-end ML workflows from data preprocessing to FastAPI deployment and Docker containerization. Experienced across computer vision, NLP, OCR, and reinforcement learning domains.

Education

Bachelor's degree at Computer Science, Suez Canal University, Ismailia

September 2020 - September 2024

Grade: Very Good

Experience

Freelance Machine Learning Engineer, Remote

January 2023 - January 2026

- Developed AI-powered applications using TensorFlow and scikit-learn for food recognition and automotive price prediction
- Built [Calories Image Detector](#): FastAPI application classifying 35 food categories with calorie estimation using CNN model
- Created [Car Price Prediction API](#): Gradient Boosting REST API with Docker deployment and interactive documentation

Skills

Technical: Python, Jupyter Notebook, TensorFlow, PyTorch, scikit-learn, FastAPI, Tkinter, CustomTkinter, Docker, Git, OpenCV, Pandas, NumPy, Matplotlib, Seaborn, Unicorn

Machine Learning: Data preprocessing, data analysis, artificial neural networks, model development, model deployment, gradient boosting, CNN architectures, data visualization

Specializations: Computer vision, NLP, reinforcement learning, API development, REST API design, desktop application integration, OCR

Projects

[FitSync](#)

Cross-platform fitness ecosystem integrating mobile app, web dashboard, and backend API with AI-driven models for personalized workout tracking and nutrition management.

[Mood Detection](#)

CNN-based deep learning application for real-time facial expression classification (Happy/Sad) with GUI supporting both camera input and file upload.

[Soundify - Arabic OCR & Text-to-Speech](#)

Desktop application integrating Tesseract OCR with text-to-speech synthesis to extract and vocalize Arabic text from images using dual recognition modes.

[MountainCar](#)

Modular reinforcement learning implementation solving OpenAI Gymnasium's MountainCar-v0 environment using Q-Learning algorithm.

Volunteering

[Chairman at Mish Hackers, Ismailia](#)

January 2020 - December 2024

[Head of Operations at GDSC, Ismailia](#)

January 2022 - January 2023

[Head of Operations at Nasa Space Apps, Ismailia](#)

January 2021 - January 2022

Courses

[Supervised Machine Learning: Regression and Classification from Coursera](#)

February 2024

[Python Project: pillow, tesseract, and OpenCV from Coursera](#)

March 2024

Languages

Arabic - Native

English - Intermediate