Ahmed Mohamed Abdulsalam

AI / Machine Learning Engineer

LinkedIn GitHub Portfolio

Email: 3bsalam0@gmail.com
Phone: +201003280029
Military Status: Completed

Computer Science graduate with hands-on experience developing AI solutions using Python, TensorFlow, and PyTorch. Skilled in end-to-end ML workflows from data preprocessing to FastAPI deployment and Docker containerization. Eager to apply expertise in computer vision, NLP, and reinforcement learning to real-world AI projects while learning from experienced engineers.

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, Uvicorn

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