Ahmed Mohamed Abdulsalam

AI / Machine Learning Engineer

LinkedIn GitHub Portfolio

Email: 3bsalam0@gmail.com
Phone: +201003280029
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, Uvicorn, LangChain

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

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

Projects

Interactive AI Portfolio
Website Full-stack portfolio featuring RAG-powered chatbot using LangChain and vector embeddings for context-aware responses. Implemented LLM API integration for natural language Q&A about technical projects, skills, and experience with semantic search capabilities.

FitSync (Graduation Project)
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