Ali Adel Hassan *AI Engineer*

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github.com/adelian14

Profile

AI Developer with hands-on experience in building machine learning and deep learning models using TensorFlow and scikit-learn.Strong foundation in computer science, with a problem-solving mindset sharpened through competitive programming and teaching.

Education

Information Technology Institute (ITI), Ministry Of Communications And Information Technology (MCIT) 10/2024 – 07/2025
Mansoura Branch
9-Month Diploma, Artificial Intelligence and Machine Learning track

Misr Higher Institute 09/2019 – 06/2023
Bachelor's degree in Computer Science Mansoura
Excellent with honors (Ranked first with cumulative score of 87.1%)

Technical Skills

Proficient in Python and fundamental packages
NumPy, Pandas

Competent in data visualization tools
Matplotlib, Seaborn, BowerBi, Plotly, Dash

Strong knowledge of machine learning and deep learning models

Tools and Platforms
Git, GitHub, Docker, Jupyter, VS Code, Google Colab

Competent in machine and deep learning packages
TensorFlow, Scikit-Learn

Strong understanding of mathematics
Linear Algebra, Probability, Statistics, Numerical Optimization

Experience in several programming languages
C++, Javascript, C#, Java

Database
SQL(MySQL, Microsoft SQL Server), NoSQL(Mongodb)

Honors and Awards

Programming and problem solving instructor (Volunteer) 10/2022 – 09/2024
Taught data structures, algorithms, and problem-solving techniques to students preparing for ECPC and other competitions Mansoura

ACPC finalist 03/2024
Africa and Arab Collegiate Programming Championship Luxor

Personal Skills

Public Speaking and Presentation
Excellent

Problem-Solving Skills
Excellent

Analytical Thinking
Very Good

Team Collaboration
Very Good

Self Study and Continuous Learning
Very Good

Attention to Detail
Very Good

Projects

Handwritten Digit Recognition
Tools and Technologies: Python, Streamlit, OpenCV, TensorFlow

Developed an interactive web application that allows users to upload images of handwritten digits, processes the images through custom image processing techniques, segments them, and predicts the digits using a CNN model trained on the MNIST dataset. Enabled users to adjust preprocessing parameters dynamically for better visualization and understanding.

Obesity Prediction: A Machine Learning Approach (Team Project)
Role: Developer
Tools and Technologies: Python, Scikit-learn, LightGBM, Pandas, GridSearchCV

Contributed to building a machine learning pipeline for predicting obesity levels (NObeyesdad) based on demographic, lifestyle, and dietary inputs. Developed preprocessing pipelines using ColumnTransformer and Pipeline to handle categorical encoding, scaling, and missing values. Participated in feature selection and model evaluation processes using Random Forest, Gradient Boosting, and LightGBM.

Dynamic Console Menu System using Object-Oriented Design
Tools and Technologies: C++, Object-Oriented Programming (OOP)

Built an extensible C++ library for designing interactive console menus, applying OOP principles (abstraction, inheritance, polymorphism). Supported dynamic navigation, nested menus, and customizable user actions.

Languages

English
Advanced

Arabic
Native