Ahmed Fawzy Abouzeid

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Summary

Aspiring Data Scientist and AI Enthusiast: Motivated third-year student with a strong foundation in Python, web development, and artificial intelligence. Passionate about data science and AI, eager to apply analytical and programming skills to real-world problems. Quick learner with a keen interest in exploring cutting-edge technologies and building innovative solutions.

Education

Arab Academy For Science And Technology, Bachelor Degree in Computer Science   Sept 2022 – Sept 2026
- Major: Computer Science
- Coursework: Data Structure and Algorithm, System Programming, Web Programming, Introduction to AI

Courses

The Complete Python Pro Bootcamp, Angela Yu - Udemy   September 2024 – Present
- Gained proficiency in Python programming, covering core concepts like data structures, object-oriented programming, and error handling.
- Developed real-world projects, such as web scraping, automation, and game development, using libraries like Flask, Selenium.
- Acquired skills in working with databases, APIs, and deploying Python applications, alongside tools like Git, GitHub.

The Complete Web Development Bootcamp, Angela Yu - Udemy   May 2024 – Present
- Mastered front-end development using HTML, CSS, and JavaScript, including building responsive websites and interactive user interfaces.
- Gained full-stack development skills, including back-end technologies like Node.js, Express.js, and MongoDB for creating server-side applications and databases.
- Developed and deployed complete web applications, integrating third-party APIs, version control with Git/GitHub.

Data Science Program, ALX   February 2025 – Present
- Learned Python, SQL, Power BI, and AWS to perform data wrangling, analysis, and model deployment.
- Learned to apply machine learning techniques including regression, classification, clustering, and NLP for real-world problem solving.
- Learned to communicate insights through data storytelling, visualizations, and capstone projects aligned with business objectives.

Projects

Sign Language   Visit Repo
- Developed a real-time American Sign Language (ASL) letter recognition system using Python, Mediapipe, and OpenCV.
- Implemented hand tracking and feature extraction from 21 landmarks using Mediapipe.
- Trained a machine learning model (KNN) to classify ASL letters based on landmark coordinates.
- Demonstrated strong skills in computer vision, ML workflows, and software integration.

GoCart   Visit Repo
- Developed an interactive e-commerce analytics dashboard using R and Shiny.
- Analyzed sales, revenue trends, and customer behavior using real-world-like datasets.
- Implemented dynamic data visualizations with ggplot2, plotly, and DT for enhanced user interaction.
- Demonstrated strong skills in R programming, data visualization, and web-based data apps.

Movie Revenue Predictor   Visit Repo

- Built a regression model to predict movie box office revenue based on metadata such as budget, genre, and cast.
- Performed data cleaning, feature engineering, and EDA on a Kaggle movie dataset using Pandas and Seaborn.
- Trained and evaluated multiple models including Linear Regression, Random Forest, and XGBoost.

Brain Tumor Detection   Visit Repo

- Developed a deep learning model for brain tumor detection using ResNet-18 and PyTorch.
- Preprocessed MRI scan data to enhance image quality and improve model accuracy.
- Trained and fine-tuned the model to classify brain tumors with high precision.

Game Store Website

- Created a responsive and interactive website to ensure that the site was visual and user-friendly across different devices.
- Implemented two separate backends, one with PHP and the other with JavaEE.
- Tools Used: HTML, CSS, Bootstrap, JavaScript, PHP, Java.

Technologies

Languages: Python, Java, C++, C, R, SQL, PHP, JavaScript
Technologies: Bootstrap 5, React, NodeJs, MongoDB, JSP, Beans