AHMED ESSAM

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Objective

Motivated AI-major Computer Science student seeking an entry-level opportunity in **Data Science** to apply and expand skills in data analysis, machine learning, and real-world problem solving. Passionate about uncovering insights from data and contributing to impactful projects in a collaborative environment.

Education

Al-Ryada University   **Oct 2023 – Jun 2027**
B.Sc. in Computer Science (AI Major), GPA: 3.8 / 4.0   *Sadat, Menoufia*

Experience

Digital Egypt Pioneers Initiative (DEPI)   **2025 – Present**
Data Science Track Participant   *Remote*

- Worked on real-world projects applying data analysis and visualization using Python, Pandas, and Matplotlib.
- Collaborated with a team to build AI-powered solutions and predictive models.
- Completed structured learning covering Machine Learning, SQL, and cloud computing fundamentals.

Informatiqa   **Jul 2025 – Sep 2025**
Oracle ADF Intern   *Cairo, Egypt*

- Developed enterprise applications using Oracle ADF framework.
- Designed and implemented data-driven components integrated with Oracle databases.
- Collaborated with senior developers to understand enterprise application workflows.

Projects

Walmart Sales Prediction (DEPI Graduation Project)   **2025**
Python, Machine Learning, Flask, React

- Built an end-to-end machine learning system to predict weekly sales, achieving **97% prediction accuracy** on the test dataset.
- Performed extensive data cleaning and feature engineering on time-based, economic, promotional, and store-level features.
- Trained and compared multiple machine learning models, selecting the best-performing model based on evaluation metrics.
- Deployed the final model using a Flask REST API and integrated it with a React web application to enable real-time predictions.

Breast Cancer Prediction (ML Deployment Project)   **2025**
Python, Machine Learning, Flask, React

- Developed a machine learning classification system to predict breast cancer (benign vs malignant), achieving **99% accuracy** on the test dataset.
- Applied data preprocessing, feature scaling, and feature selection on numerical tumor cell measurements.
- Trained and evaluated multiple classification models, selecting the best-performing model based on accuracy and recall.
- Deployed the trained model using a Flask REST API and connected it to a React web application for real-time prediction.

Calories Burn Prediction Dashboard   **2025**
Python, Pandas, Plotly, Dash

- Built an interactive dashboard to visualize exercise data and predict calories burned using regression models.
- Achieved 99.8% prediction performance on test data.

Gender Classification from Facial Images   **2024**
Python, TensorFlow, CNN

- Built a CNN model to classify gender from facial images with 97% validation accuracy.

AI Virtual Mouse   **2024**
Python, OpenCV, MediaPipe

- Developed a real-time gesture-based virtual mouse controller using webcam and hand tracking.

Movie Dataset Analysis 2024
Python, Pandas, Matplotlib, Seaborn

- Performed exploratory data analysis (EDA) on a movie dataset with over 5,000 entries.
- Found average budget of $31M and average revenue of $82M (2.6x return).
- Identified top-performing genres (Drama & Comedy, 40% of dataset).

Technical Skills

Languages: Python, C++ , Java , SQL, HTML/CSS, JavaScript
Libraries: Pandas, NumPy, Scikit-learn, TensorFlow, Matplotlib, Seaborn
Tools: Git , Github , VS Code, Jupyter Notebook, Google Colab
Soft Skills: Problem Solving, Teamwork, Communication, Time Management

Certifications

Digital Egypt Pioneers Initiative (DEPI) – Data Science Dec 2025

HCIA – Artificial Intelligence, Huawei Oct 2024

Intro to Machine Learning, Huawei Jun 2024

Python for Everybody Specialization, Coursera Jun 2024