Tadrous William

Data Scientist

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Profile

Motivated data science learner with a solid foundation in Python, data analysis, and machine learning. Passionate about solving problems with data and uncovering insights to support smart decision-making. Strong problem-solving and leadership skills.

Education

Bachelor of Science in Computer Science, Assiut National University • **CGPA: 3.9**	September 2023 – Present Assiut - Egypt
Sawiris Linkage Scholarship Program English & Soft Skills Training, Completed a competitive 3-year scholarship focused on TOEFL preparation, advanced English, communication, and leadership development.	2020 – 2023 Assiut, Egypt

Skills

Programming	**Tools**	**Libraries**	**Soft Skills**
Python , C++ , Java	Git, VS Code, Jupyter Notebook	Pandas, NumPy, Matplotlib, Scikit-learn, MySQL	Problem Solving , Communication , Leadership Potential , Self-Learning

Projects

Breast Cancer Detection (Logistic Regression) ↗

Developed a machine learning classification model using logistic regression to detect whether a tumor is benign or malignant based on diagnostic features.
- Performed data preprocessing, normalization, and feature selection.
- Achieved **98.5% accuracy** on test data.
- Evaluated model performance using a confusion matrix and scikit-learn's classification metrics.

Diamond Price Prediction (Random Forest Regressor) ↗

Built a regression model using Random Forest to predict diamond prices based on key features such as carat, cut, and clarity.
- Cleaned and processed 54,000+ entries from the Diamonds dataset.
- Applied feature engineering techniques and trained the model using scikit-learn.
- Evaluated model with **R^2 score of 0.87** and cross-validation.

Delhi Weather Forecasting (Facebook Prophet) ↗

Implemented a time series forecasting model to predict future daily temperatures in Delhi using historical data.
- Preprocessed and formatted data for time series analysis.
- Used **Facebook Prophet** to model and forecast temperature trends.
- Visualized future predictions using **interactive Plotly charts**.

Certificates

- Machine Learning A–Z™: Hands-On Python & R — Udemy
- Databases and SQL for Data Science — DataCamp (28 hours)
- Python & Machine Learning Program — Sprints (40+ hours)

Languages

Arabic – Native   English – Advanced