

# Tadrous William

Data Scientist

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**Location:** Assiut, Egypt

**CGPA:** 3.9/4.0

TW

LinkedIn

GitHub

Kaggle

## Professional Profile

Motivated Computer Science student specializing in Data Science and Machine Learning with a proven track record of developing high-accuracy models. Passionate about leveraging data-driven insights to solve complex problems and drive intelligent decision-making. Strong foundation in Python programming, statistical analysis, and machine learning algorithms with hands-on experience in real-world projects.

## Key Achievements

98.5%

Model Accuracy

54K+

Data Points Processed

## Featured Projects

### Breast Cancer Detection System

98.5% Accuracy

*Logistic Regression • Scikit-learn • Medical AI*

Developed an advanced machine learning classification model to detect malignant vs. benign tumors using diagnostic features from medical datasets.

- ▶ Comprehensive data preprocessing and feature engineering
- ▶ Advanced normalization and feature selection techniques
- ▶ Robust model evaluation using confusion matrix analysis
- ▶ Cross-validation for reliable performance assessment

### Diamond Price Prediction Engine

$R^2 = 0.87$

*Random Forest • Feature Engineering • Big Data*

# Technical Skills

## Programming Languages

Python	Advanced
C++	Intermediate
Java	Intermediate

## Data Science & ML Libraries

Pandas & NumPy	Expert
Scikit-learn	Advanced
Matplotlib	Advanced
Facebook Prophet	Intermediate

## Tools & Technologies

Jupyter Notebook	Expert
Git & VS Code	Advanced
MySQL	Intermediate

## Soft Skills

Build a sophisticated regression model to predict diamond prices based on multiple characteristics including carat, cut, clarity, and color.

- Processed and cleaned 54,000+ diamond records
- Advanced feature engineering and data transformation
- Ensemble learning with Random Forest algorithm
- Statistical validation using cross-validation techniques

## Delhi Weather Forecasting Model

Time Series

Facebook Prophet • Time Series • Plotly

Implemented a time series forecasting system to predict future daily temperatures in Delhi using historical weather patterns and seasonal analysis.

- Advanced time series data preprocessing and formatting
- Seasonal decomposition and trend analysis
- Interactive visualization using Plotly dashboards
- Prophet algorithm for robust forecasting

## Education



### Bachelor of Science in Computer Science

Assiut National University, Egypt

September 2023 – Present

CGPA: 3.9

Specialization in Data Science and Machine Learning

Problem Solving

Expert

Communication

Advanced

Leadership

Advanced

## Languages

Arabic

Native

English

Advanced



### Sawiris Linkage Scholarship Program

English & Soft Skills Development

2020 – 2023

Competitive 3-year scholarship focusing on TOEFL preparation, advanced English communication, and leadership development

## Professional Certifications

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