**Greg Odi**

**Data Analyst & Data Scientist**  
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**Professional Summary**

Data professional with expertise in **predictive modelling**, **statistical analysis**, and **data storytelling**. Proven ability to transform raw data into actionable insights using Python, SQL, and Power BI. Passionate about solving business problems through machine learning and scalable data solutions.

**Technical Skills**

**Languages:** Python (pandas, NumPy, scikit-learn, stats models), SQL, R  
**Machine Learning:** Regression, Classification, Time-Series Forecasting (ARIMA), Feature Engineering  
**Visualization:** Power BI, Tableau, Plotly, matplotlib/seaborn  
**Tools:** Juypter Notebooks, Excel (Advanced), Git, Bootstrap  
**Domains:** Education Analytics, Financial Modelling, Agricultural Data

**Professional Experience**

**Freelance Data Analyst | Remote**

*2020 – Present*

* **JAMB Performance Forecasting**
  + Engineered an **ARIMA model** (Python/stats models) to forecast gender-disaggregated pass/fail rates (2026–2030), achieving **89% accuracy** through back testing and AIC optimization.
  + Identified key drivers of performance gaps (e.g., study hours, laptop access) using **feature importance analysis**, aligning with policy recommendations.
* **Bank Marketing Analysis**
  + Conducted EDA on customer campaign data, building a **logistic regression model** (scikit-learn) to predict subscription rates (AUC: 0.92).
* **Agricultural Data Consulting (AgriCon)**
  + Designed **Power BI dashboards** to track crop yield trends, enabling farmers to optimize planting schedules (+15% productivity).

**Business Analyst | Self-Employed**

\*2015 – 2020\*

* Developed Excel-based financial models for SMEs, reducing budgeting errors by **22%**.
* Automated sales inventory tracking using **Python scripts**, cutting manual reporting time by **40%**.

**Education**

**BSc in Building** | University of Lagos (2003)  
**PGD in Business Administration** | Abdu Gusau Polytechnic (2006)

**Certifications**

* **Data Analytics Certificate** – Digital World Technology
* **SQL for Data Science** – DataCamp
* **Python for Data Analysis** – Digital World Technology

**Projects**

[**JAMB Failure Rates Analysis**](https://github.com/gregodprogrammer/Investigating-the-Causes-of-JAMB-Failure-Rates)

* Forecasted exam trends using **time-series analysis**, highlighting gender disparities (see [forecast\_gender\_rates.png](https://forecast_gender_rates.png/)).
* Tools: Python, ARIMA, Feature Importance Analysis.

[**Penguin ML Classifier**](https://github.com/gregodprogrammer/PenguineML)

* Built a **multi-class classifier** (Random Forest) to predict penguin species with **92% accuracy**.

[**AgriCon Dashboard**](https://github.com/gregodprogrammer/AgriCon)

* Interactive Excel tool for agricultural productivity tracking.

**Languages**

* English (Fluent)