

MARY UDO

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Professional Summary

Data Scientist with hands-on experience building predictive models, performing feature engineering, and solving real-world analytical problems using Python and SQL. Skilled in classification modelling, model evaluation, and translating complex outputs into actionable business insights. Experienced in working with structured datasets to identify patterns, assess risk, and support decision-making. Passionate about leveraging data science to drive impact, particularly in domains involving financial inclusion and customer behavior.

Skills

- **Machine Learning & Modelling:** Classification Models, Predictive Modelling, Model Evaluation, Model Validation, Hyperparameter Tuning.
- **Analytical Techniques & Tools:** Feature Engineering, Exploratory Data Analysis (EDA), Statistical Analysis, A/B Testing, Python (Pandas, NumPy, Scikit-learn), SQL, Excel
- **Data Handling & Processing:** Data Cleaning, Data Transformation, Handling Imbalanced Data (SMOTE), Data Preparation.
- **Data Visualization & Communication:** Power BI, Dashboarding, Data Storytelling, Insight Communication.
- **Core Strengths:** Problem Solving, Analytical Thinking, Collaboration, Business Insight Translation.

Project

Healthcare No-Show Prediction & Risk Segmentation System(Python, SQL, Power BI)

[GitHub](#)

| [Presentation](#)

- Built a classification model to predict likelihood of missed appointments, framing the problem as a risk prediction task similar to credit default modelling.
- Performed extensive feature engineering, creating behavioral and operational variables that improved model performance.
- Handled class imbalance using SMOTE, ensuring robust model learning and reducing bias toward majority class.
- Trained and evaluated models (Random Forest) using appropriate performance metrics, achieving ~80% predictive accuracy.
- Translated model outputs into actionable recommendations to improve operational efficiency and reduce missed appointments.

Experience

Operations & Data Support Assistant (NYSC)

Caleb University

(November 2024 – November 2025)

- Managed structured datasets and ensured high data quality for analysis and reporting.
- Performed data cleaning and transformation to support analytical workflows.
- Conducted basic data analysis to identify trends and support decision-making.
- Collaborated with stakeholders to communicate insights and improve operational processes.

Academic Research Assistant

E-Brain Network

(December 2022 – March 2024)

- Designed and analyzed datasets (500–700+ responses), applying statistical and exploratory analysis techniques.
- Cleaned and prepared datasets for analysis, ensuring reliability and consistency.
- Synthesized analytical findings into structured reports and recommendations.
- Collaborated with research teams to solve data-driven problems.

Professional Certifications

- Data Science & Engineering - Women Techsters Fellowship
- Artificial Intelligence Fundamentals - IBM SkillsBuild
- Advanced Microsoft Excel
- ALX Professional Foundations

Education

BSc. Health Education (Grade: 4.1 / 5.0)

December 2019 - July 2024

Ambrose Alli University - Ekpoma, Edo State

Voluntary Activities

- **Tech Girl Drive:** Led outreach programs across schools and communities, promoting female participation in technology.
- **Data Collection Volunteer (Measles Rubella Campaign):** Ensured data accuracy and completeness for reporting and analysis.
- **Red Cross Volunteer (Edo State):** Led health awareness campaigns across 4 tertiary institutions, reaching a wide student audience.