Abdul Oladosu

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Chicago, Illinois

https://clinical-dropout-app-m6i3x2gqrmc7hrf3kwy2za.streamlit.app/ Mobile: 443-712-3471

github.com/goladosu/Abdul-s_Portfolio

EDUCATION

Eastern University — **St Davids, Pennsylvania**

Master's in Data Science — **Completion Date: December 2025**

Roosevelt University — Chicago, Illinois

Master's in Biomedical Science — January 2021 - December 2022

Gulf Medical University — Ajman, UAE

B.Sc Biomedical Science — June 2014 - August 2018

SKILLS SUMMARY

Languages: Python, SQL, R

Frameworks: Pandas, Numpy, Scikit-learn, Matplotlib, ggplot

Platforms & Tools: Power BI, Excel, Powerpoint, Tableau, PyCharm, Jupyter Notebook, Google collab

Soft skills: Excellent communication/ presentation, Strong Stakeholder management, Rapport building, leadership

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WORK EXPERIENCE

Business Associate - Insight Hospital — **April 2023 - February 2025**

- Conducted in-depth market research and analysis, resulting in the identification of 10+ trends and insights that informed strategic decision-making processes.
- Produced comprehensive reports and presentations summarizing findings and recommendations, facilitating clear communication with stakeholders and driving actionable outcomes.
- Managed policy adherence, regulatory compliance ensuring consistency with industry standards.

PROJECTS

Clinical Trial Dropout Prediction System

- Developed a machine learning pipeline to predict early participant dropout using demographic, clinical, and engagement data from early trial visits, enabling proactive retention strategies for clinical operations teams.
- Engineered a robust preprocessing workflow including clinical-logic validation, missingness indicators, imputation, scaling, SMOTE oversampling, and model optimization across Logistic Regression, Random Forest, and XGBoost (ROC-AUC: 0.969 on held-out test set).
- Built an interactive Streamlit application with participant-level risk scoring, SHAP-based interpretability, and actionable decision support for CRAs (e.g., Low/Moderate/High-risk guidance).

Student Grade Prediction Model

- Built machine learning models (Linear Regression, Lasso, SVR) to forecast students' final grades (G3) using early-term grades, attendance, study habits, and background data.
- Achieved strong predictive performance (Linear Regression: RMSE ≈ 2.2, $R^2 = 0.76$) and designed a two-stage system enabling early intervention before midterm grades.
- Delivered actionable insights—identified attendance, study time, and prior failures as key levers—supporting data-driven student success strategies.