Abdul Oladosu

Email:goladosurahman@gmail.com

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 — **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

PROFESSIONAL SUMMARY

Data Scientist and Machine Learning Analyst with experience in predictive modeling, analytics, and data-driven decision support. Proven ability to design end-to-end machine learning pipelines, perform data validation, and translate complex datasets into actionable insights for operational and strategic stakeholders. Skilled in Python, SQL, and R, with hands-on experience deploying machine learning models via Streamlit and delivering insights through Power BI and data visualization tools.

SKILLS SUMMARY

Languages: Python, SQL, R

Machine Learning: Logistic Regression, Random Forest, XGBoost, Model Evaluation (ROC-AUC, Precision, Recall), Feature Engineering, SMOTE

Analytics & Data Science: Predictive Modeling, Risk Scoring, Cohort Analysis, Data Validation, Exploratory Data Analysis

Data Visualization & BI: Power BI, Tableau, Excel (PivotTables, Power Query), Matplotlib, ggplot

Deployment & Tools: Streamlit, GitHub, Jupyter Notebook, PyCharm

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WORK EXPERIENCE

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

- Analyzed operational and market datasets to support strategic planning and service optimization initiatives.
- Developed reports and presentations translating healthcare data insights for clinical and administrative stakeholders.
- Supported policy adherence and regulatory compliance through data tracking, reporting, and documentation review.

PROJECTS

Predictive Risk Modeling System

Machine Learning | Predictive Analytics | Streamlit Deployment

- Developed an end-to-end machine learning pipeline to predict early dropout/attrition using demographic, behavioral, and engagement features.
- Engineered a robust preprocessing workflow including logic validation, missing-data indicators, imputation, scaling, SMOTE oversampling, and model tuning across Logistic Regression, Random Forest, and XGBoost.
- Achieved strong model performance (**ROC-AUC: 0.969** on held-out test data).

- Built an interactive Streamlit web application featuring individual-level risk scores, SHAP-based model interpretability, and actionable Low/Moderate/High-risk guidance for decision-makers.

Student Grade Prediction Model
Predictive Modeling | Regression | Analytics

- Built predictive models (Linear Regression, Lasso, SVR) to forecast students' final academic performance using early-term grades, attendance, study habits, and background data.
- Achieved strong predictive accuracy (**RMSE ≈ 2.2, R^2 = 0.76**).
- Designed a two-stage early-warning system enabling timely interventions before mid-term assessments.
- Identified key drivers of performance, including attendance patterns, study time, and prior outcomes, to support data-driven improvement strategies.

CERTIFICATES

Data Science Methodology — *IBM*
Applied structured, end-to-end data science frameworks to real-world problem solving.

Tools for Data Science — *IBM*
Hands-on experience with Jupyter, RStudio, GitHub, Anaconda, and data science workflows.