MAIMUNAT LAWAL

Data Scientist | Machine Learning Engineer | Healthcare AI

lawalm281@gmail.com • 08069515061 • Oyo State, Nigeria

GitHub • Portfolio • X / Twitter • LinkedIn

PROFESSIONAL SUMMARY

Results-driven Data Scientist and Machine Learning Engineer with hands-on experience in building and deploying end-to-end ML systems for healthcare and predictive analytics. Skilled in Python, scikit-learn, XGBoost, TensorFlow, and Django. Proven ability to take models from raw data through feature engineering, training, and live deployment. Passionate about applying machine learning to solve high-stakes real-world problems.

TECHNICAL SKILLS

Languages: Python, SQL

ML and Data Science: Scikit-learn, XGBoost, TensorFlow, LSTM, Logistic Regression, Feature Engineering, Predictive Modelling, Model Deployment, Pandas, NumPy

Visualisation: Matplotlib, Seaborn, Power BI

Deployment: Django, Railway, Vercel, GitHub Pages

Web: HTML, CSS

Version Control: Git, GitHub

Domain Knowledge: Healthcare AI, Clinical Data, Predictive Analytics, Medical Research

EXPERIENCE

Breast Cancer Malignancy Prediction System

Django, XGBoost | 97% Accuracy | Deployed Live

- AI-powered tumour classification system based on cytological measurements from fine needle aspiration (FNA) lab results.
- Processes 30 nuclear characteristic features to classify malignancy risk; built for trained healthcare professionals.
- Deployed end-to-end as a live web application using Django on Railway.

Heart Disease Risk Prediction System

Django, Scikit-learn Pipeline | 80% Accuracy, 87% High-Risk Recall | Deployed Live

- Predictive ML model assessing cardiovascular disease risk from clinical input features.
- Achieves 87% recall on high-risk patients, minimising dangerous missed diagnoses.
- Retrained as a scikit-learn joblib Pipeline; deployed live as a Django web application.

Student Psychological Distress Risk Checker

Python, Gradient Boosting | 84% Accuracy, 0.917 AUC

- Standalone ML pipeline using gradient boosting to predict psychological distress risk from student survey data.
- Achieved 0.917 AUC, demonstrating strong discriminatory ability across risk groups.

Stock Price Prediction Model (Tesla)

Python, TensorFlow, LSTM

- LSTM deep learning model trained on 9 years of Tesla historical stock data (2014 to 2023).
- Implemented multi-step time series forecasting with visualisation of predicted vs. actual prices.

Titanic Survival Prediction Model

Python, Scikit-learn, Logistic Regression

- Classification model predicting passenger survival using demographic and socio-economic features.
- Performed data cleaning, feature engineering, and EDA; designed a user interface for real-world deployment.

Sales Data Machine Learning Analysis

Python, Machine Learning

- Applied ML techniques to a retail sales dataset to uncover demand patterns and generate predictive insights.

CERTIFICATIONS

Data Science and Machine Learning, SQI College of ICT (March 2026, Highly Commendable Performance)

AI and Career Empowerment, University of Maryland, Robert H. Smith School of Business (August 2025)

Robotics Week Bootcamp, SQI College of ICT (October 2023, Python Programming, CAD, Electronics Design)

EDUCATION

MBBS, Bachelor of Medicine, Bachelor of Surgery 2023 to Present

Pre-Clinical: Anatomy, Physiology, Biochemistry, Histology, Embryology

ACTIVITIES AND VISIBILITY

- Public builder on X (@munahcodes), documents ML projects and data science development journey.
- Volunteer at MedFintech Conference 2026, contributing to an event at the intersection of healthcare, finance, and technology.
- Recognised in person at a tech event by community members from X presence.