

# ROTIMI SHERIFF OMOSEWO

## Junior Data Scientist

Email: [omoseworotimi@gmail.com](mailto:omoseworotimi@gmail.com) Phone: +234 903 441 1444 Location: Ilorin, Nigeria  
Portfolio: [rotimi2020.github.io](https://rotimi2020.github.io) LinkedIn: [linkedin.com/in/rotimi-sheriff-omosewo](https://linkedin.com/in/rotimi-sheriff-omosewo)  
GitHub: [github.com/rotimi2020](https://github.com/rotimi2020)

## PROFESSIONAL SUMMARY

IBM Data Science Professional Certified analyst with 5+ years of project-based experience developing machine learning models and predictive analytics solutions across healthcare, retail, and finance domains. Proficient in Python, SQL, and machine learning libraries with hands-on experience building and deploying predictive models. Strong foundation in statistical analysis, feature engineering, and model optimization, with proven ability to translate complex datasets into actionable insights and scalable solutions.

### Key Project Achievements

- Developed predictive models achieving 25% improvement in forecast accuracy for retail sales
- Built machine learning pipelines reducing model development time by 40% through automation
- Implemented classification models with 89% accuracy for healthcare risk prediction
- Optimized model performance achieving 30% faster inference times

## TECHNICAL SKILLS

### Machine Learning & Programming

- Python (Scikit-learn, TensorFlow, PyTorch)
- Machine Learning (Regression, Classification, Clustering)
- Statistical Analysis & Hypothesis Testing
- SQL (Advanced Queries, CTEs, Window Functions)

### Data Science & Analytics

- Predictive Modeling & Feature Engineering
- Model Evaluation & Hyperparameter Tuning
- Deep Learning & Neural Networks
- Natural Language Processing (NLP)

### Tools & Platforms

- Jupyter Notebook, Git/GitHub, Docker
- Power BI, Tableau (Data Visualization)
- Pandas, NumPy, Matplotlib, Seaborn
- MLOps & Model Deployment

## PROJECT EXPERIENCE

### Data Science Educator & Content Creator

2020 – Present | Remote

- Created tutorials on machine learning, predictive modeling, and deployment using Python and popular ML libraries
- Developed project-based content simulating real-world scenarios in healthcare, finance, and retail analytics
- Supported 150+ learners in understanding core data science workflows, from data preprocessing to model evaluation
- Built structured learning paths that simplified complex ML concepts and improved hands-on application

## DATA SCIENCE PROJECTS

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### NHANES Diabetes Risk Prediction

*Healthcare Machine Learning | 2025*

- Developed and optimized LightGBM classifier to predict diabetes risk from NHANES health survey data of 9,000+ patients
- Engineered features from biometric and lifestyle data, achieving 89% accuracy in diabetes risk classification
- Implemented SHAP analysis for model interpretability, identifying key risk factors and their impact on predictions
- Deployed model as interactive Streamlit application for real-time risk assessment
- Technologies: Python, LightGBM, Scikit-learn, Streamlit, SHAP, Pandas

### Rossmann Sales Forecasting

*Retail Time Series Forecasting | 2025*

- Built ensemble forecasting models (CatBoost, XGBoost, Prophet) for 1,100+ store locations using 1M+ sales records
- Engineered temporal features and implemented cross-validation strategy achieving RMSE of 624 for daily sales predictions
- Optimized hyperparameters using Bayesian optimization, improving model accuracy by 25% compared to baseline
- Developed automated feature engineering pipeline for time-series data preprocessing
- Technologies: Python, CatBoost, XGBoost, Prophet, SQL, Time Series Analysis

### Customer Churn Prediction

*Classification & Business Analytics | 2025*

- Developed ensemble classification model to predict customer churn with 92% accuracy using historical transaction data
- Implemented feature importance analysis to identify key drivers of customer attrition and retention opportunities
- Built automated retraining pipeline ensuring model performance maintenance with new data
- Created business intelligence dashboard linking model predictions with actionable retention strategies
- Technologies: Python, Random Forest, XGBoost, Power BI, Model Deployment

## EDUCATION

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### BSc (Hons) in Computer Science

*National Open University of Nigeria | July 2019*

## CERTIFICATIONS

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- IBM Data Science Professional Certificate — IBM (May 2020)
- NYSC Exemption Certificate — National Youth Service Corps (May 2020)
- BCG Data Science Job Simulation — Forage Virtual Internship (2025)
- Microsoft PL-300: Power BI Data Analyst — In Progress (Expected December 2025)

## REFEREES

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Available on request