MUHIYIDEEN MUSTAPHA OLALEKAN

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PROFESSIONAL SUMMARY

Healthcare-focused Data Science enthusiast with a Bachelor's degree in Medical Laboratory Science and hands-on experience in predictive modeling and healthcare data analytics. Skilled in Python, machine learning, and statistical analysis, with a strong passion for applying technology to improve clinical decision-making and public health systems in Nigeria. Committed to contributing to the national technical talent ecosystem through innovation and continuous learning.

CORE TECHNICAL SKILLS

Programming: Python, SQL
Data Analysis: Data Cleaning, Exploratory Data Analysis (EDA), Statistical Analysis
Machine Learning: Classification, Regression, Feature Engineering, Model Evaluation
Libraries & Tools: Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Jupyter Notebook
Database: MySQL
Version Control: Git
Other Tools: Microsoft Excel

DATA SCIENCE PROJECTS (Healthcare-Focused)

Patient Readmission Prediction Model

- Developed a machine learning classification model to predict hospital readmission risks.
- Performed feature engineering and handled missing clinical data.
- Evaluated models using accuracy, confusion matrix, and precision-recall metrics.
- Tools: Python, Pandas, Scikit-learn.

Heart Disease Prediction System

- Built predictive models to assess likelihood of cardiovascular disease.
- Conducted detailed exploratory data analysis to identify key health indicators.
- Improved model performance through scaling and hyperparameter tuning.

Medical Cost Personal Analysis

- Performed regression analysis on health insurance datasets.
- Identified factors influencing medical expenses (age, BMI, lifestyle).
- Built cost estimation models to support healthcare financial planning.

Chronic Kidney Disease (CKD) Analysis

- Cleaned and analyzed laboratory datasets for early CKD detection.
- Applied classification algorithms to support diagnostic insights.
- Generated visual reports for pattern identification.

INTERNSHIP EXPERIENCE

Data Science Intern – RxData Hub Academy

January 2025 – December 2025

- Participated in real-world healthcare data projects.
- Performed data preprocessing, visualization, and predictive modeling.
- Collaborated with peers on machine learning workflows.
- Automated analysis processes using Python scripts.

TECHNICAL DEVELOPMENT EXPERIENCE

Independent Data Science Learning (2022 – Present)

- Completed structured self-learning in Python, machine learning, and data analysis.
- Built end-to-end healthcare prediction projects.
- Practiced model building, evaluation, and feature engineering using real datasets.
- Actively improved coding and analytical skills through project-based learning.

Volunteer Data Support

Thrive City Foundation (2016 – 2021)

- Assisted with data entry and basic analysis tasks.
- Organized datasets for reporting purposes.
- Created simple Excel dashboards for record tracking.

EDUCATION

Bachelor of Technology (B.Tech) – Medical Laboratory Science

Ladoke Akintola University of Technology
2017 – 2023

Relevant Academic Focus:

- Clinical diagnostics and laboratory data interpretation
- Research methodology and biostatistics
- Disease pathology and medical data management

Secondary Education

Posit College of Pure and Applied Science
2009 – 2015

ADDITIONAL COMPETENCIES

- Strong analytical and problem-solving ability
- Healthcare domain expertise combined with technical skills
- Effective teamwork and communication
- Passion for digital innovation in Nigeria's health sector