**MUHAMMED AMAO**

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**PERSONAL PROFILE**

Data professional with a strong background in data analysis, machine learning, and real-time data integration, specializing in Python, SQL, and cloud platforms like AWS and Microsoft Azure. Extensive experience in building and standardizing SQL data pipelines, increasing data retrieval and improving the accuracy of analytical models through the application of reinforcement learning and collaborative filtering. Adept at developing comprehensive data views and employing statistical analysis and time series forecasting to drive business strategy. Proven ability to analyze large datasets, enhance data quality, and deliver actionable insights through advanced data visualization tools like Power BI and Tableau. Passionate about using data to develop innovative solutions, enhance customer experience, and optimize decision-making in fast-paced environments.

**COMPETENCIES AND SKILLS**

**Programming and Scripting Languages**: Python, Microsoft SQL, T-SQL, R, Spark, JavaScript, HTML/CSS

**Tools/Libraries:** Pandas, NumPy, Scikit-Learn, Matplotlib, Pyspark, Jupyter, GraphQL, GraphML

**Data Visualization Tools**: Power BI, Tableau,

**Cloud Platforms:** AWS, Microsoft Azure, Databricks, IBM Watson Studio

**Project Management/Collaboration Tools:** Jira, Confluence, Git, Agile/Scrum

**Soft Skills:** Communication skills, Good business acumen

**CERTIFICATIONS**

• Microsoft Excel LinkedIn Skill Assessment badge

• Python LinkedIn Skill Assessment badge

• Member Computer Professionals of Nigeria

• IBM Data Science Professional

• Graph Analytics for Big Data

**PROJECTS**

**Library Database Management System**

GitHub Repo – <https://github.com/themuhd/Modern-Library-Database>

• Developed a robust and secure database system for a library, ensuring referential integrity, data consistency, and efficient data retrieval.

• Implemented key functionalities such as member management, title search, loan tracking, and status monitoring, using procedures, triggers, functions, and views.

• Strengthened data security measures with schemas, roles, password hashing, and salting, while ensuring data backup for disaster recovery.

**Technologies:** T-SQL, Python

**SpaceX Falcon 9 first stage Landing Prediction IBM Development**

GitHub Repo – <https://github.com/themuhd/IBM-Capstone>

• Description – Final course work capstone designed for predicting the success of Falcon 9 first-stage landings using machine learning models like logistic regression, decision trees, and random forests. The project involved data collection, feature engineering, exploratory data analysis, and model evaluation through techniques like cross-validation, ROC curves, and hypothesis testing, culminating in an interactive dashboard for visualization.

**Technologies:** Python, Pandas, Numpy, Scikit-learn, Matplotlib, Seaborn, Folium, BeautifulSoup, SQL, APIs, Jupyter Notebook, IBM Cloud.

**File Security System Using Blockchain and Interplanetary File System (IPFS)**

GitHub Repo – <https://github.com/themuhd/XO_Storage>

• Developed a blockchain-based file-sharing system enabling decentralized peer-to-peer file transfers. It uses a custom blockchain for secure data storage, integrating IPFS for scalability and AES encryption for file security. The system allows file uploads and downloads with unique keys, ensuring that only intended recipients can access the data.

**Technologies:** Python, Flask, Socket Programming, Blockchain, IPFS, AES Encryption, SHA-256, HTML/CSS, JavaScript.

**WORK EXPERIENCE**

**Collinson Group, United Kingdom Jan 2024 - May 2024 Data Scientist**

• Developed and standardized SQL data pipelines handling over 1TB monthly, improving analysis capabilities and increasing data retrieval efficiency by 30%.

• Ensured data quality and consistency, resulting in the successful processing of over 10,000 customer records, which streamlined reporting and improved the accuracy of analytical models.

• Employed reinforcement learning, collaborative filtering, and content-based filtering to analyse customer interactions, transaction history, and demographics achieving an accuracy increase from 50% to 86%.

• Integrated data from 5 consumer data points to construct a comprehensive Customer 360 view, resulting in a 30% increase in holistic customer understanding.

• Integrated real-time data streams to dynamically update recommendations based on customer behavior and preferences.

• Implemented statistical analysis and time series forecasting on real-time customer data using Python and advanced Excel, leading to more than 50 improved business strategies and significantly enhancing decision-making processes.

**KPMG, United Kingdom July 2023 - Sept 2023 Data Analytics Consultant(Virtual) Internship**

• Successfully applied customer data quality assessment to optimize marketing strategy, enabling company growth at Sprocket Central Pty Ltd with data provided in 3 datasets through data-driven insights.

• Presented data-driven insights in a comprehensive dashboard to display to the client

• Optimized marketing strategies by conducting a thorough data quality assessment using Python and SQL, significantly enhancing customer data utilization

• Communicated complex data findings effectively to clients through Power BI dashboards, contributing to strategic decision-making and business value

• Carried out data extraction, transformation, and loading (ETL) procedures to guarantee smooth data integration, leading to a 20% reduction in report generation time.

**52 Signal Brigade, NG Jan 2022 - Nov 2022**

**Network Data Analyst**

• Drove efficient network support by adeptly addressing and resolving a multitude of WAN/LAN connectivity issues, contributing to an 85% reduction in overall network downtime.

• Efficiently oversaw the setup and maintenance of data and voice circuits across a network spanning 50 routers, switches, and WAN devices. This optimized management upheld smooth communication and operational efficiency.

• Managed network operations, ensuring an 85% reduction in downtime by optimizing data and voice circuits across network hardware

• Collaborated with team members to design and deploy network solutions, increasing network capacity by handling an additional 25 concurrent users and improving response time by reducing latency from 200ms to 140ms

**EDUCATION**

**University of Salford, Greater Manchester**  **2023 – 2024**

Master of Science, Data Science

• Thesis: Modelling the 360-degree Customer Journey to Determine Customer Lifetime

**Academic Standing: Distinction**

**Afe Babalola University , Ado-Ekiti 2017 - 2021**

Bachelor of Science, Computer Science

• Thesis: File Security system using Blockchain and IPFS technology

I am available to start immediately