Ian Kibugu

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Data Specialist with expertise in data analysis, visualization, and machine learning

Results-driven data specialist with experience in data management, analytics, and predictive modeling. Skilled in SQL, Python, Power BI, and cloud computing. Adept at optimizing data pipelines, automating reporting, and improving data-driven decision-making processes. I am passionate about leveraging technology to drive business insights and efficiency.

Experience

JUNE 2023 – MAY 2024

Medfastgo | Data Specialist

- Developed and managed data pipelines to improve data flow and system efficiency.
- Integrated Firebase for real-time data updates and analytics reporting.
- Designed and maintained dashboards using Power BI and Tableau to track key performance indicators.
- Optimized database performance through indexing and query optimization.
- Implemented automated reporting systems, reducing manual data processing time by 40%.

DECEMBER 2022 – APRIL 2024

Nafuu Credit Limited | Data Specialist

- Collected, cleaned, and analyzed large datasets to support business decisions.
- Developed predictive models to improve risk assessment and customer segmentation.
- Created data visualizations and reports for stakeholders, increasing data-driven decision-making efficiency.
- Ensured data security and integrity by implementing best data governance practices.
- Collaborated with cross-functional teams to deploy scalable data solutions.

Skills

- Data Analysis: SQL, Python (Pandas, NumPy), R, Excel
- Database Management: MySQL, PostgreSQL, Firebase
- Data Visualization: Power BI, Tableau, Matplotlib, Seaborn
- Big Data & Cloud: AWS, Google Cloud, Hadoop
- Machine Learning: Scikit-learn, TensorFlow
- ETL & Automation: Apache Airflow, Data Pipelines, API Integration
- Problem Solving
- Communication
- Leadership
- Team Collaboration

Education

August 2015 – July 2019

Bachelor of Computer science| Jomo Kenyatta University of Agriculture and Technology

B.Sc. Computer Science

Moringa School

Software Engineering | September 2019 – February 2021

Projects

Customer Insights Dashboard (November 2024 – Present)

A Power BI-based dashboard providing real-time insights into customer behavior and business performance.

- Integrated multiple data sources for a comprehensive analysis.
- Implemented predictive analytics for customer retention strategies.
- Enhanced visualization for better decision-making.

Fraud Detection Model (January 2023 – March 2024)

A machine learning model designed to detect fraudulent transactions in financial services.

- Trained on large datasets using Python (Scikit-learn, TensorFlow).
- Achieved 95% accuracy in fraud detection.
- Integrated into the company's risk assessment system.

Activities

Data science trends, open-source contributions, machine learning research, hiking, photography, and mentoring aspiring data analysts.