

Kasamba Lumwagi

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Summary

Data engineer with comprehensive experience in building ETL/ELT pipelines by using big data tools like Apache Spark, Python, Microsoft Azure, and machine learning techniques. Adept at training LLM's by optimizing trained data, queries, together with analysing large datasets to drive actionable insights. Contributed to high-impact projects such as sentiment analysis for British and agricultural data visualization for ineuron.ai, improving operational efficiency and decision-making processes.

Education

Technical University of Mombasa
Bachelor of Science Information Technology

Mombasa, Kenya
Sep 2021 - Dec 2025

Work Experience

Turing | Remote, USA
LLM SQL Developer (Contract) Nov 2024 - April 2025

- Developed and refined SQL queries to evaluate the correctness, relevance, and completeness of AI-generated solutions improving the accuracy of the LLM's response by 23%.
- Collaborated with researchers to assess AI system performance in instruction following and efficiency.
- Analysed datasets for business queries and improved model understanding of structured data by 15%.
- Debugged AI-generated SQL programs and prepared detailed documentation for reproducibility and clarity.
- Conducted peer reviews of SQL code and provided actionable feedback to enhance solution quality.

Ineuron.ai | Remote, India
Data Analyst Intern Jun 2024 - Nov 2024

- Analysed fertilizer consumption, agriculture value added per worker, and livestock production indexes from 1969 to 2019 ,leading to a 20% increase in efficiency of reporting and data visualization for agricultural trends
- Built interactive dashboards in Power BI, reducing manual data reporting tasks by 30%, offering stakeholders easy access to critical agricultural performance metrics.
- Documented the system design with HLD, LLD architecture documents, resulting in clear communication across stakeholders.

BRITISH AIRWAYS | Remote | UK
Data Science Intern Nov 2023 - Jan 2024

- Conducted sentiment analysis on customer reviews, improving collaboration for enhanced customer experience.
- Developed machine learning models for predicting customer behavior concerning flight bookings.
- Utilized Python and data visualization tools to create interactive graphics for customer satisfaction data analysis.
- Collaborated with cross-functional teams to identify and resolve data-related issues, resulting in significant enhancements in customer experience.

Skills

SQL, Python, Data Analysis, Git/GitHub, Big Data, Power BI, Natural Language Processing, Microsoft Azure, Apache Spark, Data Engineering, Technical Writing, Kubernetes, Sentiment Analysis, Pandas (Python Package), Docker, ETL/ELT pipelines, Apache Airflow, Database concepts.