

ALEX WAWERU

Data Scientist & ML Engineer

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Portfolio: <https://alexgit-05.github.io/AlexWaweru.github.io/>

PROFESSIONAL SUMMARY

Results-driven data scientist with expertise in machine learning, statistical analysis, and data visualization. Skilled in optimizing solutions across diverse sectors, including energy, environmental modeling, and financial markets. Proficient in developing predictive models, interpreting complex datasets, and creating actionable insights for business decision-making. Passionate about leveraging AI to drive innovation and solve real-world problems.

SKILLS

Analyzing & Visualizing Tools: Power BI, Tableau, Microsoft Excel, Dash (Plotly), SPSS, ArcGIS

Programming Languages: R, Python, SQL

Database Management Systems: MySQL, PostgreSQL, BigQuery

Cloud & DevOps Tools: VS Code, Jupyter Notebooks, Git & GitHub, Google Cloud Platform, Airflow, Docker

EXPERIENCE

Data Scientist

Freelance | Remote

2020 Aug – Present

- Built interactive dashboards in Power BI for tracking service KPIs and revenue growth.
- Applied ML to optimize sales platforms, improving resource use and site performance.
- Modeled financial market volatility using econometrics to capture crisis dynamics.
- Developed AI-driven algorithms for transcribing videos to text and detecting contradictions in documents.
- Delivered actionable insights for business optimization and user behavior analysis.

Data Scientist (Intern)

KenGen | Nairobi, Kenya

2024 July – Dec 2024

- Analyzed energy, financial, and economic data to uncover trends and inform strategic decisions.
- Built data pipelines in R and Python to automate analysis and improve reporting accuracy.
- Designed real-time interactive dashboards using Dash and Power BI to visualize KPIs and monitor performance.
- Created automated web-scraping tools to monitor policy updates and notify stakeholders.
- Improved data infrastructure using MySQL to enhance reporting and analysis reliability.

Data Scientist / AI Trainer

AICE | Nairobi, Kenya (Remote)

2024 Mar – May 2024

- Led hands-on training in Python, machine learning, and real-world data modeling.
- Guided participants in data exploration, EDA, model evaluation, and deployment.
- Taught deployment strategies using cloud services and version control tools.
- Taught data storytelling and effective communication of insights.
- Mentored learners on building actionable insights from complex datasets.

Data Analyst (Intern)

SAMCHI TELECOMMUNICATION | Nairobi, Kenya

2022 May – July 2022

- Analyzed daily sales data and resolved revenue discrepancies in collaboration with finance.
- Developed an R-based automation script, reducing reporting workload by 80% and improved accuracy.
- Produced reports on customer trends and product performance.
- Collaborated with sales and finance teams to ensure data consistency.

EDUCATION

Bachelor of Science in Applied Statistics with Computing

Moi University, 2023

PROJECT

KenGen Performance Monitoring Application: Building a real-time web application using Next.js, FastAPI, and PostgreSQL to monitor energy dispatch and operational performance, enabling dynamic visualization of KPIs and supporting timely, data-driven decision-making.