ALEX WAWERU
Data Scientist & ML Engineer

EMAIL: alexwawerugit@gmail.com   **CELL**: (+254) 790 212 472   **WEBSITE**: Portfolio

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

- Statistical Analysis
- Machine Learning
- Algorithm Development
- Database Development
- Data Visualization
- Python
- R
- SQL
- Power BI
- Microsoft Excel
- Project Management
- Problem Solving
- Communication
- Presentation Skills
- Team Collaboration

EXPERIENCE

Data Scientist | Data Analyst
Freelance   2020 Aug – Present

- Collaborated with data scientists and web developers to create a web application, focusing on fine-tuning LLMs and developing algorithms for video-to-text transcription and contradiction detection in documents using Python.
- Developed algorithms for data manipulation.
- Web scraping using Python and R.
- Transformed complex data into compelling narratives using visualization tools such as Power BI and Tableau.
- Engaged in a variety of projects including mini-projects in Excel, showcasing adaptability across different platforms and tools.

Applied Statistician | Data Scientist
KenGen,   2024 July – Dec 2024

- Conducted in-depth analysis of KenGen's revenue streams using Excel to assess performance trends and financial health.
- Analyzed key economic indicators such as exchange rates and inflation using Excel and R to provide insights on their impact on energy pricing and revenue.
- Performed analysis on energy dispatch operations using Excel to monitor energy distribution and performance tracking.
- Developed algorithms in R and Python to automate energy dispatch and revenue performance analysis, significantly enhancing operational efficiency.
- Contributed to building a robust data management system using MySQL for improved data organization and access.
- Designed and implemented a user-friendly web application using Dash to automate tasks and provide an interactive dashboard for data visualization and insights.
- Developed an automated system that scrapes the Kenya Law website and notify recipients via email whenever a new gazette was uploaded

Data Scientist | AI Trainer
AICE,   2024 Mar – May 2024

- Taught Python, data visualization, and advanced machine learning techniques, focusing on real-world applications and hands-on projects.
- Directed hands-on sessions with real datasets, guiding learners through exploratory data analysis, model building, and validation.
- Guided learners on strategies for deploying machine learning models, including the use of cloud services.
- Integrated soft skills training and career development into the curriculum, covering communication and problem-solving.

Data Analyst
SAMCHI TELECOMMUNICATION,   2022 May – July 2022

- Collected data on sale made on a daily basis.
- Analyzed data and comped reports.
- Identified and resolved discrepancies in revenue streams, ensuring that financial transactions are correctly recorded.
- Developed an algorithm using R that automated the data analysis process. This reduced the workload by 80% and eliminated any possible human error.

EDUCATION

Bachelor of Science in Applied Statistics with Computing   *Kenya Certificate of Secondary Education*
Moi University, 2023   Githiga Boys High School, 2017