Kalvin Kayi Mwashi

Data Analyst | Machine Learning Engineer | Full-Stack Developer

0706698592 | Nairobi, Kenya | Email | Github | LinkedIn | HackerRank

Professional Summary

I am an experienced Data Analyst, Machine Learning Engineer, and Full-Stack Developer with a strong background in data analysis, AI model development, and web application design. With a proven track record of building scalable machine learning solutions, optimizing data-driven decision-making, and developing robust web platforms, I specialize in extracting insights from complex datasets and implementing AI-driven applications. My expertise spans data forecasting, statistical analysis, cybersecurity, and full-stack development, making me a valuable contributor to organizations leveraging data and technology for business growth

Areas of Expertise

- Security Compliance and Governance
- Data Forecasting, Analysis & Reporting
- Data Visualization
- Statistical Analysis
- Team Building & Leadership
- Requirement Gathering & Project Planning
- Quality Assurance
- Customer Analytics

Technical Skills

- **Programming Languages:** Python, JavaScript, TypeScript, SQL
- **Machine Learning & AI:** Scikit-learn, TensorFlow, PyTorch, Transfer Learning
- **Data Science & Analysis:** Pandas, NumPy, Jupyter Notebook, Matplotlib, Seaborn, Data Wrangling
- **Full-Stack Development:** React, Node.js, Express.js, MongoDB, PostgreSQL
- **Cloud & DevOps:** Docker, Vercel, Git, GitHub

- **Tools & Software:** Microsoft Office (Word, Excel, PowerPoint), Power BI

Experience

Data Analyst Intern | Rongo University, Migori, Kenya

- Analyzed over 1,000 academic and administrative datasets, improving decision-making by 20%.
- Executed SQL queries on datasets exceeding 100,000 records, reducing data retrieval time by 30%.
- Conducted statistical analysis using Python and Excel, achieving 95% accuracy in identifying patterns in student enrollment and resource utilization.
- Developed 15 interactive data visualizations using Tableau to aid decision-making.
- Implemented data quality assurance measures, improving data integrity by 98%.
- Collaborated with cross-functional teams to design and standardize data collection protocols.

Web Developer | DigiMagic Tech, Remote

- Designed and developed DigiMagic Tech, a modern and responsive website to showcase digital marketing services.
- Implemented interactive UI/UX features to improve user engagement and accessibility.
- Optimized website performance for SEO and mobile responsiveness.
- Integrated content management features to enable easy updates and scalability.

Machine Learning Engineer | Matakiri Trust, Nairobi, Kenya

- Developing machine learning models to support data-driven decision-making in community projects.
- Conducting data analysis to identify trends and insights for project optimization.
- Implementing AI solutions to enhance efficiency and impact assessment.
- Collaborating with cross-functional teams to integrate AI into real-world applications.

Marketing Analyst | Lenku Marketing Firm, Nairobi, Kenya

- Conducted market research and data analysis to identify trends and customer preferences.
- Developed data-driven marketing strategies to improve campaign effectiveness.

- Collaborated with the digital marketing team to optimize SEO and social media engagement.

- Prepared reports on marketing performance and consumer insights for strategic planning.

Web Designer | Timnjiz Business Center, Nairobi, Kenya

- Designed and developed responsive websites for business clients, enhancing their online presence.

- Created visually appealing UI/UX designs to improve user engagement.

- Collaborated with clients to understand their requirements and deliver customized solutions.

- Optimized website performance and ensured cross-browser compatibility.

Data Analyst Intern | Rongo University, Migori, Kenya

- Analyzed over 1,000 academic and administrative datasets, improving decision-making by 20%.

- Executed SQL queries on datasets exceeding 100,000 records, reducing data retrieval time by 30%.

- Conducted statistical analysis using Python and Excel, achieving 95% accuracy in identifying patterns in student enrollment and resource utilization.

- Developed 15 interactive data visualizations using Tableau to aid decision-making.

- Implemented data quality assurance measures, improving data integrity by 98%.

- Collaborated with cross-functional teams to design and standardize data collection protocols.

Projects

Machine Learning & Data Science Projects

- **FactChecker API** – RESTful API verifying truthfulness of statements using a machine learning model trained on real and fake news datasets. *(Python, ML, API Development)*

- **Sonar Rock vs Mine Model** – Classification model for differentiating sonar signals from rocks and mines. *(Python, Jupyter Notebook, ML)*

- **Fact Detection** – AI model for analyzing and validating text statements. *(Python, NLP)*

- **Bert Detection** – Enhanced misinformation detection using BERT. *(Python, NLP)*

- **ML Fact Checker** – Fake news detection system leveraging NLP. *(Python, NLP)*

- **Image Classification Using Transfer Learning** – Applied CNN-based transfer learning to classify images. *(Jupyter Notebook, TensorFlow)*

- **Heart Disease Predictor** – ML model predicting heart disease risk based on health indicators. *(Jupyter Notebook)*

- **Walmart Sales Data Analysis** – Analyzed Walmart sales trends for optimizing strategies. *(Jupyter Notebook)*

- **Ultra Marathon USA Analysis** – Studied performance trends in long-distance running. *(Jupyter Notebook)*

- **Weather Dataset Analysis** – Time-series data analysis for weather conditions. *(Jupyter Notebook)*

- **Crop Recommendation System** – AI-driven model recommending optimal crops based on soil and weather conditions. *(Jupyter Notebook)*

- **Prep Air's Flow Card Analysis** – Cleaned and analyzed airline loyalty program data to assess success metrics.

Full-Stack & Web Development Projects

- **MERN Real Estate** – Property marketplace with user authentication and listings. *(TypeScript, MERN Stack)*

- **Portfolio Website** – Personal portfolio showcasing skills and projects. *(React, Tailwind CSS)*

- **Appointment App** – Web-based appointment scheduling system. *(JavaScript)*

- **CMS Project** – Content management system with admin panel. *(JavaScript)*

- **Next Blog App** – Blogging platform for content creation. *(Next.js, JavaScript)*

Other Contributions & Open-Source Projects

- **Fact Detection API** – Public API for integrating fact-checking into applications. *(Python, API)*

- **GitHub Profile Config** – Configuration files for GitHub settings. *(Config Files)*

- **Use Case Activity Collaborative Diagrams** – Documented use case diagrams for software projects. *(Diagrams & Documentation)*

Certification

Hackerank | SQL Basics | Link

it was an SQL certification from Hacker rank for the basics in the proficiency in SQL.

Education

Rongo University, Kenya (Graduated 2024)

Bachelor of Science in Informatics

Completed a comprehensive curriculum focusing on computer science fundamentals, data structures, algorithms, and software development techniques.

Specialized coursework in data analysis and machine learning, including:

• Data Mining and Warehousing

• Machine Learning Techniques

• Statistical Analysis for Computer Science

• Database Systems and Design

GIBS(Githurai Institute of Business Studies) COLLEGE - 2019

Certificate in computer studies and Microsoft packages

Nguviu Boys High School, 2016 – 2019

Kenya Certificate of Secondary Education

Kasarani Primary School 2012 - 2015

Kenya Certificate of Primary Education

REFERENCES

i. Dr. Lamek Rono,

Dean of Students School of Information Technology,

Communication and Media Studies,

Rongo University.

Contact: 0720254319

Email: ronolamek@gmail.com