

Weldon Langat

Data Scientist | Machine Learning Engineer

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Portfolio: <https://langat01.github.io/>

Professional Summary

Results-driven Data Scientist with over 1 year of experience building machine learning models and scalable data pipelines. Skilled in Python, cloud platforms, and transforming complex data into actionable insights. Proven ability to deliver data solutions that enhance business decision making and operational efficiency.

Work Experience

Independent Data Scientist

Self-Employed | Jan 2024 – Present

- Developed a real-time crypto trading dashboard using Streamlit and Binance API featuring live candlestick charts, technical indicators, and AI-driven price direction predictions.
- Built predictive models (Random Forest, XGBoost) with 95% accuracy, improving decision-making by 40%.
- Designed and deployed AWS data pipelines processing over 10,000 records daily, reducing data analysis time by 60%.
- Implemented NLP text classification solutions achieving 89% accuracy.
- Created interactive dashboards to visualize key metrics for stakeholders.

Data Analyst

Weltech Company | Jun 2024 – April 2025

- Automated data collection and reporting processes, cutting manual work by 70%.
- Developed Tableau dashboards that identified \$250K+ in annual cost savings.
- Conducted statistical analyses revealing customer trends, boosting retention by 15%.
- Mentored junior analysts on Python and SQL best practices.

Education

BSc in Applied Statistics with Programming

Murang'a University of Technology 2020

- Specialized in Statistical Modeling and Machine Learning
- Relevant coursework: Data Structures, Probability Theory, Regression Analysis
- Capstone project: Predictive Maintenance System Using Sensor Data

Technical Skills

Programming & Data Science: Python (Pandas, NumPy, SciPy), Scikit-learn, TensorFlow, SQL (PostgreSQL, MySQL), Apache Spark

Data Engineering: ETL Pipelines, Airflow

Cloud & Tools: AWS (S3, EC2, Lambda), Google Cloud Platform, Docker, Kubernetes, Git & CI/CD

Visualization & Reporting: Tableau, Streamlit, Plotly

Certifications

- Cisco Networking Academy – Data Science
- AWS Certified Cloud Practitioner (In Progress)
- Google Data Analytics Professional Certificate

Selected Projects

Dragon Trading AI Dashboard

Built a real-time crypto trading dashboard using Binance API, with live price charts, technical indicators, and AI models predicting price movements.

GEF Biodiversity Dashboard

Developed an interactive dashboard analyzing biodiversity impacts of GEF projects with spatial data and species threat levels across 150 countries.

Predictive Maintenance System

Created a machine learning model predicting equipment failures with 92% accuracy, reducing downtime by 40%.