

WANYONYI ALEX WAFULA

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PROFESSIONAL SUMMARY

Graduate Data Scientist and Machine Learning Engineer with a strong foundation in applied data analysis, machine learning, and software engineering. Experienced in developing end-to-end ML solutions, data-driven systems, and backend services using Python, SQL, and modern frameworks. Proven ability to translate real-world problems into analytical and predictive models through hands-on projects and internships. Actively seeking graduate trainee, data science, or machine learning roles, with openness to software engineering opportunities where data and AI are core components.

CORE TECHNICAL SKILLS

- ✓ **Programming Languages**
Python, JavaScript, Java, R
- ✓ **Data Science & Machine Learning**
Pandas, NumPy, Scikit-learn, TensorFlow, Keras, SQL
Exploratory Data Analysis (EDA), Feature Engineering, Model Evaluation
- ✓ **Data Visualization & BI**
Power BI, Tableau, Matplotlib, Seaborn, Plotly
- ✓ **Software Engineering & Backend**
Node.js, Express.js, React, Java (Spring Boot), REST APIs
- ✓ **Tools & Platforms**
Git & GitHub, Jupyter Notebook, Google Colab, Docker, Bash
- ✓ **Special Interest Areas**
Predictive Analytics, Machine Learning Systems, Computer Vision, Automation, AI-Driven Applications

PROJECTS

1. Customer Churn Prediction System (Machine Learning)

GitHub: <https://github.com/livingemoji/churn>

- Built and evaluated machine learning models to predict customer churn using the Telco Customer Churn dataset.
- Conducted exploratory data analysis, feature engineering, and data preprocessing to improve model performance.
- Achieved over 82% prediction accuracy using Logistic Regression and Random Forest models.
- Delivered actionable insights through visualizations to support business decision-making.

Technologies: Python, Pandas, NumPy, Scikit-learn, Matplotlib

2. AI-Driven Workforce Productivity & Operations Insight System

GitHub: <https://github.com/livingemoji/productivity>

- Designed a data analytics system to analyze workforce performance trends and operational efficiency.
- Applied machine learning techniques for pattern recognition and anomaly detection in productivity data.
- Developed interactive visualizations to support management-level insights and decision-making.
- Implemented the system as a data-driven prototype suitable for organizational analytics use cases.

Technologies: Python, Pandas, NumPy, Plotly, Matplotlib

3. AI-Enabled Home Security System (Computer Vision)

GitHub: https://github.com/livingemoji/AI_enabled_home_security

- Developed a low-cost computer vision-based home security system using motion detection.
- Implemented real-time image capture and object detection using OpenCV.
- Automated email alerts with captured images for remote monitoring and security notifications.
- Focused on practical AI application under resource-constrained environments.

Technologies: Python, OpenCV, NumPy

4. Quantum Data Analytics Project (Virtual Internship – Forked, Modified)

GitHub: <https://github.com/livingemoji/quantium-starter-repo>

- Worked on a forked analytics repository as part of the Quantum virtual internship program.
- Modified and extended existing code to improve data visualizations and analytical outputs.
- Interpreted customer purchasing behavior using exploratory analysis and dashboarding techniques.

Technologies: Python, Pandas, streamlit, Dash

EXPERIENCE

ICT Technician (Attachment)

Rural Electrification and Renewable Energy Corporation (REREC)

June 2024 – September 2024

- Provided technical support, troubleshooting, and system maintenance across multiple departments.
- Assisted with hardware and software installations, network support, and system backups.
- Supported data entry, basic database operations, and ICT service continuity.
- Gained exposure to enterprise ICT environments, cybersecurity concepts, and system administration practices.

Virtual Experience Programs – Data Science & Software Engineering

Forage | 2024 – 2025

- Completed virtual internships with **British Airways, Commonwealth Bank, Tata, J.P. Morgan, and Quantum.**
- Built machine learning models, data pipelines, dashboards, and backend APIs in simulated enterprise environments.
- Practiced software engineering workflows including version control, testing, and documentation.

- Worked with technologies such as Python, SQL, Spring Boot, Kafka, and RESTful services.

EDUCATION

- ✓ **Bachelor of Science in Applied Physics and Computer Science,**
Multimedia University of Kenya | Graduated: **30 October 2025**

Relevant Coursework:

Machine Learning, Artificial Intelligence, Data Structures, Algorithms, Data Mining, Computer Vision

CERTIFICATIONS

- **Certificate in Computer Applications** – Brilliant Institute of Professional Studies (BIPS), 2021
- **IBM Data Science Professional Certificate** (Ongoing)
- **JavaScript** – Coursera
- **Data Science & Software Engineering Virtual Internships (BA, CBA, Tata)**
- **J.P. Morgan Software Engineering Virtual Experience**
- **Data Science for beginners** – [Cisco](#), 2026

AVAILABILITY

Open to graduate trainee, entry-level, internship, and full-time roles in Data Science, Machine Learning, and Software Engineering.