

## Ruth Ondiere

Nairobi, Kenya | Email: [bonareriondiere@gmail.com](mailto:bonareriondiere@gmail.com) | Phone: +254705616648 |  
LinkedIn: <https://www.linkedin.com/in/ruth-ondiere-254009198>

## Professional Summary

Passionate and driven Data Science and Machine Learning professional with a BSc in Electronics and Computer Engineering. I thrive on transforming complex datasets into actionable insights using Python, SQL, AWS, and advanced visualization tools. With hands-on experience in predictive modeling, IoT technologies, and cloud computing, I'm eager to tackle real-world challenges in Data Science and Machine Learning. Seeking remote, hybrid, or location-based roles to contribute my analytical skills and collaborative spirit.

## Skills

- **Programming:** Python, SQL
- **Machine Learning:** Logistic Regression, Random Forest, Time-Series Analysis, NLP, RAG
- **Cloud Computing:** AWS (Certified Cloud Practitioner)
- **Data Visualization:** Matplotlib, Seaborn
- **IoT Technologies:** Sensor Data Analysis, Predictive Maintenance
- **Tools:** AutoCAD, PLCs, Motor Control Circuits
- **Soft Skills:** Problem-Solving, Analytical Thinking, Clear Communication, Team Collaboration, Multitasking

## Professional Experience

### IoT Engineer Intern & Technical Customer Associate | Hello Tractor, Nairobi

*Sep 2023 - Jan 2025*

- Diagnosed and resolved hardware/software issues for IoT devices, ensuring seamless telematic data integration.
- Partnered with engineering, marketing, and sales teams to enhance product features, boosting customer satisfaction.
- Delivered user training on mobile apps and IoT systems, empowering clients with effective technology use.
- Supported system monitoring and data reporting, driving continuous product improvements.

## **Electrical Engineering Intern | State Department of Public Works, Nairobi**

*Jan 2022 - Apr 2022*

- Designed power systems for building services using AutoCAD, optimizing efficiency and safety.
- Conducted site surveys and provided technical support for power backup, fire detection, and CCTV systems.
- Implemented green energy solutions, contributing to sustainable and energy-efficient infrastructure.

## **Audio-Visual Technician Intern | Proscene Systems Limited, Nairobi**

*Jan 2021 - May 2021*

- Installed and maintained AV equipment, including projectors, microphones, and speakers, for flawless performance.
- Quickly diagnosed and resolved technical issues, ensuring uninterrupted AV system functionality.

## **Electrical Engineering Intern | Imexolutions Limited, Nairobi**

*Jul 2019 - Sep 2019*

- Supported assembly and maintenance of power transmission and distribution systems, enhancing reliability.
- Gained hands-on expertise in programmable logic controllers (PLCs) and motor control circuits.

## **ICT Intern | Horizon Group Limited, Nairobi**

*Aug 2018 - Oct 2018*

- Managed computer systems, networks, and peripherals, ensuring robust IT operations.
- Configured hardware, software, and biometric systems, streamlining organizational processes.

## **Education**

### **BSc in Electronics and Computer Engineering**

Jomo Kenyatta University of Agriculture and Technology, Juja

Sep 2016 - Dec 2022

## Certifications

- AWS Certified Cloud Practitioner | Sep 2023
- Getting Started with Deep Learning (NVIDIA) | May 2025
- Data Science & AI Course (World Bank-Sponsored) | May 2025

## Projects

### EduRoutes: School Transportation Optimization Platform

- Built a data-driven platform during the KIEP-SKIES AI program to streamline school transportation in Nairobi.
- Leveraged geospatial data, machine learning, and mapping tools to design safer, shorter, and efficient routes.
- Reduced commute times and improved punctuality, supporting smarter transport planning for schools and parents.
- Contributed to SDG 4 (Quality Education) and SDG 11 (Sustainable Cities).

### Predicting Airline Fares

- Developed a machine learning model to forecast airline ticket prices using historical data and market trends.
- Applied time-series analysis and regression models to pinpoint factors driving fare fluctuations.
- Enhanced model accuracy through feature engineering and preprocessing, delivering cost-saving insights.
- Visualized trends with Matplotlib and Seaborn, empowering travelers and businesses with data-driven decisions.

### KUCCPS Course Advisor Bot

- Led a winning team at the Tech Innovators Network (THiNK) Botathon at Mama Ngina University, supported by KIEP-SKIES, JHUB Africa, The World Bank, and the Ministry of Investments, Trade, and Industry.
- Designed a KUCCPS Course Advisor Bot using Retrieval-Augmented Generation (RAG) and agentic models to guide students in course selection.
- Delivered an innovative AI solution that streamlined academic advising, showcasing expertise in NLP and collaborative problem-solving.

## **Languages**

- English (Fluent)
- Swahili (Fluent)

## **Additional Information**

- References available upon request.