



Jecinta Wanjiru Kinyanjui

Geospatial Data Scientist

Climate & Social Impact Analytics

CONTACT

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EDUCATION

B.Tech — Surveying Technology

Technical University of Kenya
2021 – 2025 | Nairobi

2nd Class Honours, Upper Division

ACHIEVEMENT

2025 FIG Foundation Young Surveyor Grant

Awarded globally by the International Federation of Surveyors to outstanding emerging professionals.

GIS & REMOTE SENSING

- ArcGIS Pro / QGIS
- Google Earth Engine
- Web mapping
- Land use & climate monitoring

DATA SCIENCE & ML

- Python (pandas, matplotlib, scikit-learn, OOP)
- Machine Learning
- SQL — database querying
- Predictive modelling

DATA VISUALISATION

- Power BI
- Tableau
- Excel (advanced)

AI & PRODUCTIVITY

- Generative AI & prompt engineering
- Workflow automation
- Slack, Trello, Miro

PROFESSIONAL SUMMARY

Mission-driven data professional committed to using geospatial technology, machine learning, and data analytics to solve real-world problems in Kenya and East Africa — from predicting climate disasters like drought and flooding, to mapping femicide hotspots that can drive policy intervention and save lives. Combines a strong academic foundation in Surveying Technology with hands-on experience in remote sensing, GIS automation, and AI-augmented workflows. Certified in Data Science, Python, Data Analytics, and AI Career Essentials. Proven ability to manage large-scale geodatabases, automate data pipelines, and deliver actionable spatial insights to cross-functional teams.

EXPERIENCE

Attachee — GIS & Data Analyst

Kenya Electricity and Transmission Company (KETRACO) | Sep 2025 – Dec 2025

- ▶ Managed a geodatabase of 1,000+ land parcel records, increasing data validation and retrieval accuracy by 25% through systematic quality checks.
- ▶ Performed digitisation of land parcels using ArcGIS Pro to update and maintain existing spatial records.
- ▶ Created detailed technical reports documenting all fieldwork and generated structured work plans for scheduled operations.

Attachee Trainee — Remote Sensing

Directorate of Resource Surveys and Remote Sensing (DRSRS) | Aug 2025 – Sep 2025

- ▶ Designed interactive web maps for climate change monitoring and land use analysis, enabling real-time spatial decision-making across multi-county datasets.
- ▶ Leveraged Python scripts with Google Earth Engine to automate data cleaning and cartographic workflows, significantly reducing manual map production time.
- ▶ Digitised and maintained 300+ coffee farm parcels in ArcGIS Pro, ensuring data integrity for farmers' land management records.
- ▶ Partnered with senior engineers and GIS experts to streamline cross-functional data analysis workflows.

Trainee

Hyrax View Hotel, Nakuru | Jan 2019 – Dec 2019

- ▶ Analysed monthly sales patterns using data principles to identify top-performing items, contributing to a 20% increase in revenue.
- ▶ Used digital inventory tracking to maintain 95% product availability, reducing stockouts through systematic auditing.

CERTIFICATIONS & LICENCES

ALX Data Science

Foundations of data science, statistical analysis, and applied machine learning for real-world datasets.

ALX Python Programming

Syntax, object-oriented programming (OOP), error handling, and scripting for automation.

ALX Data Analytics

SQL for database querying, Power BI for data visualisation, advanced spreadsheet techniques and data analysis workflows.

ALX AI Career Essentials

Generative AI tools for content creation, data analysis, workflow automation, and prompt engineering.

ALX Virtual Assistant

Calendar management, inbox organisation, data entry, social media management, and AI productivity tools.

ESRI MOOC — Making an Impact with Modern Geo Apps

Applied use of modern geospatial web applications (ArcGIS Online, Experience Builder, Dashboards) to deliver spatial insights and support decision-making.

KEY PROJECTS

FOCUS AREAS

- Climate resilience — drought & flood prediction
- Femicide hotspot mapping
- Agricultural data analytics
- SDGs & sustainable development

Kenya Climate Risk Dashboard *2025*

Web maps analysing drought and flood-prone zones across Kenya counties using satellite-derived rainfall and land cover data, built to support early warning systems and resource allocation decisions.

Coffee Farm Geodatabase — DRSRS *2025*

End-to-end digitisation and geodatabase management of 300+ coffee farm parcels, with validation workflows that improved downstream data accuracy for smallholder farmers and land administrators.

Cartographic Automation Pipeline — DRSRS *2025*

Developed Python/Google Earth Engine scripts to automate repetitive map production tasks (reprojection, symbology, export), cutting production time and enabling the team to focus on analysis rather than manual processing.