

Njoroge Koigi

Geospatial Engineer | Spatial Data Scientist

I am a practicing geospatial data scientist passionate about solving complex spatial problems using machine learning. I have gained experience in different environments that make me highly adept with technical and personal skills suitable for any working environment. Excellent communicator, fast learner and can handle fast-paced working conditions.

AGREED EARTH LIMITED

Geospatial Data Science Consultant

London, UK (Remote)

- Comparison of Water Balance models used to assess subsurface groundwater recharge flow.
- *Writing Python code for wrangling and processing monthly satellite imagery data specifically climatic variables from microsoft planetary computer (LULC, Wind speed, Precipitation)*
- Groundwater recharge modeling for Colne Catchment.
- Visualizing the effects of each Land use component on groundwater recharge using Xarray.

Geospatial Analyst

Freelance

- Developed a simple vulnerability index to assess vulnerable populations in Toronto, CA
- Developed python code to Detect spatial clusters of diseases and undesirable health outcomes.
- Network Analysis for the transport route between Brampton and Mississauga areas using GTFS data
- Developed efficient code for Ecoregion delineation using K-means clustering
- Computation of Landscape metrics using Land use data.
- Performed Landscape Analysis using Elevation Data.

SKILLS

- | | |
|---|--|
| • Python (Xarray, Geopandas, seaborn, Folium) | • Spatial Data Science(Network Analysis) |
| • R | • Spatial Analysis (Location Intelligence) |
| • Jupyter | • Geostatistics |
| • SpatialML | • Web Mapping |
| • Data Visualization | |

PERSONAL PROJECTS

- Developed a UDF to map the LA parking meter occupancy from the LA County geodata hub using the fused platform
- Conducted network analysis for the Nairobi road network from OSM dataset using python.

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github.com/LUKE2019-ENG

EDUCATION

Bachelor of Science in Geomatics Engineering and G.I.S

Jomo Kenyatta University of Agriculture and Technology
2016-2021

CERTIFICATIONS

Applied Data Science Lab

WorldQuant University

MLops-zoomcamp

DataTalksClub

Geospatial Data Science: Statistics and Machine Learning

Udemy

Geospatial Data Science with Python: Data Visualization

Udemy

Spatial Data Science: The New Frontier in Analytics

Esri Mooc

VOLUNTEER ROLES

Cross Over Community Development (COCD)

Dayton, OH

- Wrangling Census data to map different immigrant related datasets i.e. Age, Location, Income levels