BRIAN KIPSANG

DATA SCIENTIST | ANALYST

PROFESSIONAL SUMMARY

Recent graduate with a degree in Geospatial Information Science & Remote Sensing with hands-on experience in data analysis, predictive modeling, and geospatial analytics. Proficient in Python, R, SQL, Excel, and Power BI which I apply in transforming data into actionable insights to support decision-making. Seeking to apply my technical and analytical skills in a data-driven environment.

CONTACT

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Portfolio: https://briankani.github.io/

EDUCATION

Dedan Kimathi University of Technology | 2019-2024 Bachelor of Science

Geospatial Information Science and Remote Sensing | Second Class, Lower Division

ALX Africa | 2023 - 2024

Software Engineering Bootcamp

Chebisaas Boys High School | 2015- 2018

Mean Grade B-

CERTIFICATIONS

Applied Data Science Lab | WorldQuantUniversity

Generative AI in Action | IBM

Data Science with Python | IBM

Azure AI Fundamentals | Microsoft

TECHNICAL SKILLS

Data Analytics	Python • R • SQL • SQL • Excel • Power BI
Machine Learning	Pytorch • Predictive Modeling • Supervised Learning • Regression
Geospatial Technologies	ArcGIS • QGIS • Google Earth Engine

PROFESSIONAL EXPERIENCE

Geospatial Information Systems Intern | Ministry of Lands and Physical Planning

- Assisted in cadastral mapping and boundary demarcation projects.
- Conducted land surveys utilizing survey tools and GPS equipment to collect precise spatial data
- Processed and analyzed survey data for integration into cadastral maps and land information systems
- Prepared technical reports documenting survey findings and spatial analysis results
- Supported field teams in boundary demarcation and property mapping projects

PROJECTS

Maize Yield Prediction in Uasin Gishu County | Thesis

- Developed a predictive model for maize yield using machine learning algorithms and GIS data.
- Integrated spatial analysis with supervised learning to forecast crop production.
- Utilized Python, QGIS, and statistical techniques for data preprocessing and model evaluation.
- Provided insights to support agricultural decision-making and optimize resource allocation.

Air Quality Analysis in Nairobi | Zindi Africa Hackathon |

- Assessed air pollution patterns using satellite data and ground-based sensor readings.
- Created interactive Power BI dashboards to visualize pollution levels and public health trends over time.
- Applied time series analysis and spatial overlays to identify high-risk zones.

Crop Disease Detection in Uganda | Zindi Africa Hackathon

- Leveraged multi-temporal satellite imagery to detect and forecast crop disease outbreaks.
- Developed a monitoring pipeline combining NDVI analysis with ML classification techniques.
- Contributed to early-warning insights for local farming communities.

REFERENCES

Dr. Mark K. Boit
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