



AMINU MUSA

GIS analyst | Data Scientist | Web developer | Researcher

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ABOUT ME

A research-focused Geospatial Data Scientist with expertise in spatial analysis, remote sensing, and web-based applications, proficient across the Python, R, JavaScript, QGIS, Grass, SAGA GIS & ArcGIS stack. I leverage machine learning and geoinformatics to drive interdisciplinary solutions for environmental challenges and support capacity building.

EDUCATION

2024 - 2025

Rework Technology
Abuja.

Data Science & Machine Learning Course

Completed comprehensive training covering data analysis, statistical modeling, machine learning algorithms, and data visualization using Python, Pandas, NumPy, Scikit-learn, and Matplotlib. Gained practical experience through real-world projects and case studies.

2023 - 2024

Rework Technology
Abuja.

Full Stack Web Development Course (MERN Stack)

Completed intensive training in full stack development using MongoDB, Express.js, React.js, and Node.js. Gained hands-on experience in building responsive web applications, RESTful APIs, and deploying projects using modern development tools and best practices.

2021 - 2022

Data for Dev Academy

Data Analysis using SPSS and Excel

Acquired skills in basic statistics, including descriptive and inferential analysis (t-test, ANOVA, regression, and correlation) with interpretation. Gained experience in data cleaning and in using KoboToolbox for data collection and management.

2018 - 2021

Kogi State University,
Anyigba.

Bachelor of Science in Geography & Environmental Studies

Graduated with a CGPA of 4.5. Gained strong knowledge in GIS, spatial analysis, and environmental studies. Project: *Impact of COVID-19 Lockdown on Crime Rate in Suleja, Niger State.*

2011 - 2013

Aminu Kano College of
Islamic & Legal Studies

Diploma in Computer Studies

Completed with a solid foundation in computer applications, programming, data processing, and IT fundamentals. Gained practical skills in Microsoft Office, basic networking, and introductory programming.

2011 - 2013

Hill-Side Gov't Model
School, Suleja.

Senior Secondary School Certificate (SSCE)

Completed with strong passes in key subjects including Geography, English Language, Mathematics, Biology, and Government. Graduated with distinction in Geography and commendable academic performance.

2003 - 2007

The Messenger Nur/Pri
Sch, Suleja.

First School Leaving Certificate (FSLC)

Successfully completed primary education with foundational skills in literacy, numeracy, and social studies.

SKILLS

▪ **Geographic Information Systems**
(GIS & GPS)

▪ **Remote Sensing & Image Analysis**
(GEE, Grass GIS, Idrisi Terrset, &
Saga GIS)

▪ **Map Design & Cartography**
(QGIS, Arcgis & Argis Pro)

▪ **Data Science & Analytics**
SPSS, Colab, Python, R, Jupyter,
Excel, Kobo toolbox

▪ **Version Control**
(Git & GitHub)

▪ **Web Development**
(MERN Stack, VS-Code)

▪ **Teamwork & Communication**

▪ **Technical Writing & Research**
(Ms Word, Excel, PowerPoint,
Google docs & notepad)

WORK EXPERIENCE

2014 – 2015

Aptense Computer
College, Suleja,
Niger State

Computer Instructor & Web Development Trainer

Instructed students on basic to intermediate computer skills and introduced web development fundamentals. Designed hands-on training modules in HTML, CSS, and MS Office tools.

2016 – Present

A&H New Media
Innovation, Suleja,
Niger State.

Computer Instructor, GIS & Web Development Trainer

Deliver training in GIS applications, web development, and general computer literacy. Mentor students and professionals in modern tools such as QGIS, ArcGIS, HTML/CSS, and JavaScript.

2019 – 2022

GIS Laboratory,
Kogi State University

GIS Trainer & Technical Support Assistant

Provided technical assistance in GIS software, supported student projects, and facilitated practical sessions on spatial data analysis using QGIS, ArcGIS, and Google Earth Engine.

2020 – 2021

Department of Urban &
Regional Planning,
FCDA, Abuja

Industrial Training (Internship)

Assisted in spatial planning projects, map digitization, and data collection. Supported field surveys and contributed to urban development assessments using GIS tools.

2022 – 2023

Raw Materials Research &
Development Council
(RMRDC), Abuja

NYSC – Industrial Mineral Development Division (IMDD)

Worked on geospatial data collection, mineral mapping, and report preparation. Supported mineral resource analysis and contributed to GIS-based project outputs under the IMDD unit.

PUBLICATIONS

- **An Assessment of the Impact of COVID-19 Lockdown on Crime Rate in Suleja Local Government Area, Niger State**
Undergraduate research project (unpublished)
- **Spatial Pattern and Distribution of Crime in Suleja Local Government Area, Niger State.**
Published (<https://www.scirp.org/journal/paperinformation?paperid=126803>)
- **Assessment of Crime Rate During COVID-19 Lockdown in Suleja LGA, Niger State.**
Published (<https://journal-innovations.com/assets/uploads/doc/ae0aa-813-820.16416.pdf>)
- **Spatial Mapping of Crime Hotspots in Bwari Area Council, FCT, Abuja**
(unpublished)
- **Predictive Modelling of Land Surface Temperature Using Surface Characteristics in SulejaLGA**
(unpublished)

REFERENCES

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