



# AMINU MUSA

GIS analyst | Data Scientist | Web developer | Researcher

+234-906-016-3364

aminumusa669@gmail.com

Portfolio

## 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

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### 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

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- **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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**Ibrahim Danlami Muhammed**  
Tel:08034803082  
Senior researcher  
NASRDA

**Patrick Eneche**  
Tel: +31684152846  
Lecturer  
University of Twente, Netherlands