

Mahi Aminu Aliyu

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🎓 Education

MSc Computer Science, Abubakar Tafawa Balewa University 2023 – present | Bauchi, Nigeria
Relevant Coursework: Research Methodology, Mathematical Modelling and Simulation, Computer Architecture, Numerical Analysis

BSc Computer Science, Al-Qalam Univeristy Katsina 2018 – 2023 | Bauchi, Nigeria
Relevant Coursework: Fundamentals of Data Structures, Algorithm and Complexity Analysis, Discrete Mathematics, Programming (C++ and Java) and Web Programming(HTML, CSS and JavaScript)

🏢 Professional/Volunteer Experience

Data Analyst - Part time, Horizon IT Services 01-2023 – present | Bauchi, Nigeria
- Curated a low-resource Hausa dataset by extracting and cleaning 500+ text data entries from Al-Barka radio station's news
- Applied advanced cleaning techniques, transforming 2,000+ raw Hausa news text entries into a refined CSV file.
- Collaborated on dataset enhancement by introducing categorization and optional labeling, improving data usability by 30%

Ambassador, DeepLearning.ai 09-2023 – present | Bauchi, Nigeria
- Actively contributed to the DeepLearning.ai community as an Ambassador, facilitating knowledge sharing and engaging 100+ peers.
- Hosted the event "Growing an AI Community," fostering collaboration and discussions within the AI community in Bauchi, attended by 50+ participants.
- Organized and participated in 5 cross-community events, promoting a cohesive and united AI ecosystem.

Lead, Google Developer Student Clubs AUK 09-2021 – 2022 | Katsina, Nigeria
- Led the Google Developer Students Clubs community, facilitating 10+ workshops and technical sessions, positively impacting over 350 students' lives.
- Leveraged Google technologies to address the United Nations Sustainable Development Goals (SDGs), providing tech solutions to 5 local communities and businesses.

📁 Research/Projects

SageBot
- Developed SageBot, an AI-powered tool that summarizes technical documents for developers, reducing document review time by 40%.
- Leveraged LLMs (e.g., ChatGPT, LLAMA-3) and tools like Hugging Face, Langchain, achieving a high accuracy in document summarization.
- SageBot empowers developers to grasp key information from complex documents 50% faster, improving workflow efficiency.

(In-peer review - Malaysian Journal of Computing), Water Quality Prediction Model: Using Machine Learning
- Conducted research under the guidance of the Head of Faculty, developing a machine learning model using NSFQI for water quality assessment and prediction.
- Implemented parameter selection and feature extraction in accordance with CCME guidelines, identifying 10 potential contaminants of concern.
- Trained four classifiers—Logistic Regression, XGBoost, Random Forest, and K Nearest Neighbors—on the dataset, achieving accuracy scores of 0.77, 0.86, 0.87, and 0.74, respectively.

Water Quality Data - Bauchi State Water and Sewerage Corporation
- Led a collaborative effort to digitise 8 years of water quality data entries from handwritten documents in partnership with Bauchi State Water and Sewerage Corporation.
- Employed Microsoft Azure Document Intelligence for OCR, facilitating the conversion of 1,500+ analog records to structured CSV/Excel formats.
- Extracted, cleaned, and organized data, ensuring accuracy and reliability, resulting in a 50% improvement in water quality monitoring efficiency.

📖 Courses

Machine Learning Specialisation, Coursera - DeepLearning.ai & Stanford 2024
Statistical Inference, Coursera- Johns Hopkins University 2023
Data Science: Foundation using R Specialisation, Coursera- Johns Hopkins University 2022

🧠 Skills

Programming
Python, C++, R, Django, Linux, Django Rest-API, Git/Github, and Microsoft Azure & AWS

Awards
4th place at FSI Financial Inclusion For All hackathon
6th Place at Nigeria University Computer Programming Contest (NUPC)

Interest
Games, Football, Manga and Chess.