Ismaila Abdullahi Adavize

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Abuja FCT, Nigeria

Summary

I am a highly motivated and detail-oriented Computer Science graduate with a strong background in Data Science, Machine Learning, Computer Vision, and Web Development. Skilled in leveraging data-driven insights to solve complex problems and build scalable applications. Passionate about research, innovation, and contributing to academic and professional excellence in technology and artificial intelligence.

Experience

- **Zinchi International** *Jan 2025 - Present*

Mathematics Tutor, Business Development Abuja, Nigeria

- Spearheaded strategic business development initiatives and partnership proposals for training programs and technical workshops.
- Conducted data-driven market analysis to identify growth opportunities, improving client engagement by 25%. - Designed and presented project proposals integrating data visualization and insights for management decision-making.
- Supported the implementation of ICT and data-focused projects across institutions.
- Prepare students for graduate exams like GRE, GMAT and SAT on Maths

- **Business Made Easy (BIME) Analytics** *May 2023 - Jun 2024*

Software Developer / Data Analyst Intern Remote

- Built interactive inventory management dashboards using Power BI and Excel to help clients monitor sales and stock levels.
- Conducted data cleaning, transformation, and report automation for SMEs, improving operational efficiency by 30%.
- Collaborated with cross-functional teams to collect requirements, visualize KPIs, and produce actionable insights.

Federal University Lokoja, Kogi State *Jan 2023 - Sep 2023*

Teaching Assistant (Intern) Kogi State, Nigeria

- Assisted in tutoring undergraduate students in programming, data structures, and database systems.
- Supported academic research and student projects in computer vision and AI.
- Contributed to departmental research on automation of diagnostic systems using neural networks.

ALX-AT/Udacity Data Analytics *May 2022 - Aug 2022*

Nano Degree certificate in Data Analysis (ID P7HVKTUU) Online

- Exploratory Data Analysis (EDA): Performed data wrangling and feature extraction using Python libraries such as *Pandas* and *NumPy*.
- Gathering data through web scraping, APIs, SQL query.
- Data Visualization: Developed interactive dashboards and charts with *Matplotlib* and *Seaborn* to present business performance trends.
- SQL for Data Analysis: Queried large databases to uncover insights and support data-driven decision-making.
- Capstone Project: Delivered an end-to-end analytics project, from data sourcing and cleaning to visualization and interpretation, demonstrating the ability to convert raw data into actionable insights.

Udemy *Jan 2020 - Sep 2020*

The Complete Front-End Web Developer Online

- Responsive Web Design: Built mobile-first, adaptive websites using HTML5, CSS3, and Flexbox/Grid layouts for optimal performance on various devices.
- JavaScript Programming: Implemented dynamic client-side functionality and handled APIs, DOM manipulation, and asynchronous programming with ES6+ standards.
- React Framework: Developed modular, component-based user interfaces and integrated RESTful APIs for data-driven applications.
- Version Control: Used Git and GitHub for collaborative project management, version tracking, and deployment.
- Final Capstone Project: Designed and deployed a fully responsive and functional web application that demonstrates interactivity, accessibility, and efficient performance.

Key projects:

- *Automation of a Tuberculosis Diagnostic System using CNN and Deep Learning*: Developed and deployment of an intelligent diagnostic model leveraging *Convolutional Neural Networks (CNN)* and *transfer learning* to detect tuberculosis (TB) from chest X-ray images. The system was trained on publicly available datasets, including the Montgomery and Shenzhen Kaggle TB datasets, achieving over 98% accuracy in TB classification. Data preprocessing involved image normalization,

augmentation, and resizing to enhance model performance.

- *Maize Plant Disease Detection using Convolutional Neural Networks*: Implemented a computer vision system for identifying and classifying maize leaf diseases using deep learning techniques. Using a custom-trained CNN model with image augmentation and fine-tuning of layers, the system achieved high precision in detecting major maize diseases such as leaf blight, rust, and gray leaf spot. The model was deployed in a lightweight web application, providing farmers and agricultural officers with an accessible early-warning tool for disease management.
- *Sentiment and Political Opinion Analysis of Twitter Data during the 2023 Nigerian Presidential Election*: Conducted a large-scale sentiment analysis on Twitter data related to the 2023 Nigerian Presidential Election using *Natural Language Processing (NLP)* techniques. Tweets were collected through the Twitter API and preprocessed using Python libraries such as NLTK and TextBlob. The model classified sentiments into positive, negative, and neutral categories to assess public perception toward political candidates. Analytical visualizations using *Power BI* and *Matplotlib* revealed insightful patterns about voter engagement and regional sentiment trends, providing valuable data for political communication and media analytics.
- *Design and Implementation of Network Security based on Access Control*: Designed and implemented a robust network security system integrating *Role-Based Access Control (RBAC)* to prevent unauthorized access and improve data confidentiality in institutional networks. The system utilized authentication protocols, encryption standards, and firewall configurations to mitigate internal and external threats. Testing showed significant improvement in intrusion prevention and access management.

Education

- **Federal University Lokoja, Kogi state.** *Jun 2021 - Sep 2024*
  BSc in Computer Science, Kogi State, Nigeria
- **Federal Polytechnic Nasarawa, Nasarawa state** *Jan 2017 - Sep 2019*
  ND in Computer Science *Nasarawa,* Nigeria

Skills

- **Programming Languages:**
  Python, JavaScript, HTML, CSS, SQL, MATLAB.
- **Databases:**
  MySQL, MongoDB, PostgreSQL, Firebase.
- **Data Tools and Visualization Platforms:**
  Power BI, Tableau, Excel, Jupyter Notebook, Google Colab.
- **General Tools and Platforms:**
  Linux, Git, GitHub, VS Code, Anaconda, Shell Scripting.
- **Mathematics and Statistics:**
  Strong foundation in Statistical Modeling, Linear Algebra, and Differential Equations, with expertise in Probabilistic and Predictive Analysis.
- **Artificial Intelligence and Machine Learning:**
  Expertise in Deep Learning and Computer Vision CNNs, Transfer Learning, Model Evaluation, Prompt Engineering, Fine-Tuning, and AI-assisted Image Classification.
- **Networking and System Security:**
  Network Configuration, Access Control Models, Firewalls, and Secure Authentication Systems.
- **Leadership and Strategy:**
  Team coordination, community engagement, technical project leadership, and youth mentorship in Data Science and AI literacy programs.

Honors and Awards

- **Data Scientist Network (DSN)** *Sep 2024*
  DSN leadership Award of Excellence
  - Organized and facilitated DSN bootcamps and hackathons with over 200 participants.
  - Mentored student teams on real-world data projects, including health diagnostics and predictive analytics.
  - Strengthened community participation in data-driven innovation and research.
- **National Association of Kogi State Students (NAKOSS)** *Sep 2024*
  NAKOSS leadership Award of Excellence
  - As an active student leader, I organized seminars and mentorship sessions aimed at improving students' academic performance and personal growth.
  - I also played a key role in coordinating student welfare initiatives, fostering unity, and representing student interests across multiple institutions.
  - My leadership promoted collaboration between university departments and strengthened communication between students and school management.