

# IBRAHIM MUHAMMAD

DATA SCIENTIST

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## Professional Profile

Results-oriented Data Scientist with 4 years of experience in leading the development and deployment of data-driven solutions across diverse industries. Proficient in leveraging Python and SQL to analyze large datasets, build predictive models, and uncover actionable insights. Expert in collaborating with cross-functional teams to translate complex data into clear, strategic recommendations that drive business performance. Skilled in machine learning, statistical analysis, and data visualization, with a strong focus on optimizing algorithms for scalability and efficiency. Passionate about solving complex problems and utilizing cutting-edge technologies to drive innovation and achieve impactful results.

## Career Highlights

- Led the design and implementation of a machine learning model that accurately predicts the risk of chronic kidney disease (CKD) using patient data.
- Utilized advanced algorithms and feature engineering to enhance the model's accuracy and reliability, resulting in a significant improvement in early diagnosis rates.
- Developed a robust detection system capable of identifying polymorphic malware through dynamic analysis and machine learning techniques.
- Spearheaded the development of automated image analysis tools that improve the accuracy of diagnostics in medical imaging, particularly in radiology and pathology.
- Implemented cutting-edge deep learning models to analyze complex medical images, resulting in faster and more precise identification of abnormalities.

## Skills

Python | Pandas | SQL | Machine Learning | Data Analysis | Statistical Analysis | Data Visualization | Deep Learning | Data Wrangling | Feature Engineering | Predictive Modeling | Cloud Computing | Model Deployment | A/B Testing | Version Control | Communication | Problem-solving | Analytical Thinking | Collaboration | Creativity | Time Management | Attention to Detail | Critical Thinking | Business Acumen | Data Storytelling

## Tools

Jupyter Notebook | Anaconda | TensorFlow | PyTorch | Scikit-Learn | Keras | Matplotlib | Seaborn | Google Colab | ggplot2 | Git | GitHub | GitLab | Docker | SQL Databases | NoSQL Databases

## Professional Experience

**Sule Lamido University, Kafin-Hausa | Jigawa State, Nigeria**  
**Development of Chronic Kidney Disease Prediction Application**  
**June 2020 – November 2022**

- Developed a machine learning model to accurately predict chronic kidney disease, utilizing patient data to enhance early diagnosis and treatment.
- Collaborated closely in the data analysis phase, ensuring the integrity and relevance of features used in model building.
- Played a key role in deploying the model on a web server, enabling healthcare professionals to access predictive insights remotely, thereby improving patient care.

**CRAP Kano | Kano, Nigeria**  
**Medical Imaging Analysis**  
**2022 – 2023**

- Led the development of automated medical imaging analysis tools, focusing on enhancing the accuracy and speed of diagnostics in radiology and pathology.
- Utilized deep learning techniques to process and analyze complex medical images, significantly improving the detection of abnormalities.
- Collaborated with healthcare professionals to validate the models, ensuring they met clinical standards and provided reliable diagnostic support.
- Contributed to the deployment of these tools within clinical settings, enhancing the efficiency and effectiveness of medical imaging workflows.

**Thermolinks Concept Ltd | Abuja, Nigeria**  
**Fish Pond Monitoring System**  
**2023 – Present**

- Collaborated with the development team during the product development phase, contributing to both software and hardware integration.
- Coded the hardware components, including microcontrollers, WiFi modules, and sensors, ensuring seamless functionality and integration with the software.
- Utilized Firebase for data storage and retrieval, enhancing app performance and reliability.
- Provided effective solutions to network and platform-related issues, ensuring consistent product functionality and user satisfaction.
- Leveraged data science techniques to test and predict water levels and quality in ponds, optimizing resource management and improving decision-making processes.
- Applied predictive modeling to forecast changes in water conditions, aiding in the proactive management of aquatic environments.

## Education & Certifications

### EDUCATION

Sule Lamido University, Kafin-Hausa | Jigawa State, Nigeria  
Bachelor's Degree in Computer Science (4.92/5.00)  
2018 – 2023

Blessed Academy, Kaduna | Kaduna, Nigeria  
Senior Secondary School Certificate  
2010 – 2016

### CERTIFICATIONS

- Advanced Data Science  
Certificate of Recognition, Sule Lamido University
- Certified Data Analyst  
Hiit Plc, Kano
- Certificate of Recognition as “Outstanding Data Scientist”  
Sule Lamido University, Department of Computer Science

## Leadership Roles & Involvement

- Pioneer President, Faculty Association  
Nigeria Association of Computing Students (SLUK Chapter)
- Academic Committee Chairman Muslim Student's Society of Nigeria (SLUK Chapter)

## Volunteering Experience

- **Open Source Contributor**  
Contributed to data science open-source projects by improving documentation and developing tutorials, making complex concepts more accessible to aspiring data scientists.
- **Data Science Mentor**  
Volunteered as a mentor for local coding boot camps, providing guidance and industry insights to students on data analysis, machine learning, and project development.
- **Community Data Analyst**  
Collaborated with community organizations to analyze data for local initiatives, helping to inform decision-making and improve services based on data-driven insights.