

# Abdulkadir Shehu Bichi

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## EDUCATION

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**Bayero University, Kano**

MSC COMPUTER SCIENCE

*Nigeria*

*2019 - 2024*

**Bayero University, Kano**

BSC COMPUTER SCIENCE (SECOND CLASS UPPER WITH CGPA 4.46/5)

*Nigeria*

*2013 - 2018*

## WORK EXPERIENCE

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**Baba Ahmed University, Kano State**

POSITION: ASSISTANT LECTURER

*Kano, Nigeria*

*May, 2024 - Present*

- ROLE: I assist in delivering lectures, preparing course materials, and conducting tutorials or lab sessions under the supervision of professor

**Freelance**

POSITION: SOFTWARE DEVELOPER

*Remote*

*June, 2019 - Present*

- ROLE: I collaborate with cross-functional teams to designs, develops, tests, and maintains, deliver efficient, scalable, and reliable software solutions.

**Northbridge College of Science and Technology**

POSITION: GRADUATE TEACHING ASSISTANT

*Kano, Nigeria*

*Jan, 2023 - March, 2024*

- ROLE: I Facilitated student learning by leading tutorials, grading coursework, and providing academic support

**Express Technical Services**

POSITION: DATA ANALYST

*Kano, Nigeria*

*Nov 2020 - Nov 2022*

- ROLE: I interpret complex datasets to identify trends, patterns, and insights that support business decisions using Data analytics tools

**School of Technology, Kano State Polytechnic**

POSITION: PART TIME LECTURER

*Kano, Nigeria*

*May, 2019 - Sep 2020*

- ROLE: I Facilitated student learning by leading tutorials, grading coursework, and providing academic support

**Jigawa State College of Education Gumel**

POSITION: LECTURER- NATIONAL YOUTH SERVICE CORPS

*Jigawa, Nigeria*

*April 2018 - April 2019*

- ROLE: I Facilitated student learning by leading tutorials, grading coursework, and providing academic support

## RESEARCH EXPERIENCE

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**Arewa Data Science Academy**

ROLE: RESEARCH ASSISTANT

*Kano, Nigeria*

*May, 2025- June, 2025*

- Project: "NeuroXNet-VTRes: A Hybrid CNN-Transformer-ResNet Architecture with Tumor Localization Attention for Brain Tumor Classification: NeuroXNet-VTRes is a novel hybrid deep learning architecture that combines a domain-specific lightweight CNN with Vision Transformer and ResNet components to improve brain tumor classification from MRI images. The model features dual-stream fusion for enhanced feature representation and a dedicated tumor localization attention mechanism that increases

both interpretability and diagnostic accuracy. Evaluated on the MRI dataset, the architecture demonstrates superior performance with strong generalization capabilities, making it well-suited for real-time clinical applications in neuro-oncological diagnostics..”

**HausaNLP Research Group, Bayero University Kano**

*Kano, Nigeria*

ROLE: RESEARCH ASSISTANT

*September 2024-2025*

- Project: “Mu-SHROOM, the Multilingual Shared-task on Hallucinations and Related Observable Overgeneration Mistakes is a multilingual shared-task project focused on detecting hallucinations and overgeneration errors in natural language generation systems. It aims to benchmark and improve the reliability of generated text across multiple languages by identifying factual inconsistencies and related mistakes.”

**HausaNLP Research Group, Bayero University Kano**

*Kano, Nigeria*

ROLE: ANNOTATOR

*Jan 2022-2023*

- Project: Building a multilingual parallel corpus of English and the three most-spoken languages in Nigeria (Hausa, Igbo and Yoruba), the project focuses on creating a multilingual parallel corpus that aligns English with Nigeria’s three most widely spoken languages: Hausa, Igbo, and Yoruba. The goal is to support natural language processing applications, including machine translation and language preservation.

**Department of Computer Science, Bayero University Kano**

*Kano, Nigeria*

ROLE: MSC RESEARCHER

*2019, 2024*

- Dissertation Title: Lexical-Semantic Based Machine Learning Model for Fake News: This dissertation proposes a lexical-semantic machine learning model for fake news detection, designed for robust generalization across varied datasets.

**Department of Computer Science, Bayero University Kano**

*Kano, Nigeria*

ROLE: GRADUATE RESEARCH PEER - ASSISTED FELLOW MSC STUDENTS WITH IMPLEMENTATION *2019, 2023*

- Project: I assisted MSc students with project implementation and research guidance, Contributed to a project on transformer-based purchase intention mining, focusing on comparative analysis using a novel dataset.

**Department of Computer Science, Bayero University Kano**

*Kano, Nigeria*

ROLE: GRADUATE RESEARCH PEER - ASSISTED FELLOW MSC STUDENTS WITH IMPLEMENTATION *2019, 2023*

- Project: I supported MSc students with the implementation of research projects in the development of an Extractive Text Summarization Model tailored for the Hausa language.

**Department of Computer Science, Bayero University Kano**

*Kano, Nigeria*

ROLE: UNDERGRADUATE RESEARCHER

*June 2017, Dec 2017*

- Projects: I Worked on the Student Course Evaluation System, focusing on data analysis, system design, and feature implementation to improve feedback collection.

**RESEARCH INTEREST** \_\_\_\_\_

- **Artificial Intelligence**
- **Machine Learning**
- **Natural Language Processing**
- **Deep Learning**

**TECHNICAL SKILLS** \_\_\_\_\_

- **Programming Languages:** Python, with demonstrated expertise in data analysis and machine learning applications.
- **Machine Learning:** Strong foundation in core algorithms including regression, classification, with practical implementation experience.
- **Deep Learning:** Hands-on experience implementing solutions using TensorFlow and PyTorch frameworks.

## SOFTWARE PROJECTS

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- **Hamdala College of Nursing Sciences Portal:** [www.hamdala.edu.ng](http://www.hamdala.edu.ng)
- **Result Processing System (Demo):** [www.sms.codezoneinfotech.org.ng](http://www.sms.codezoneinfotech.org.ng)
- **StarBell Travel and Tours Website:** [www.starbelltravel.com.ng](http://www.starbelltravel.com.ng)
- And many more

## MATHEMATICAL FOUNDATIONS

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- **Probability Theory and Linear Algebra:** Comprehensive understanding of probability theory and linear algebra, essential for advanced machine learning applications

## DATA ANALYTICS AND VISUALIZATION

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- **Analytics Platform Expertise:** Advanced proficiency with Tableau, Power BI, and Python visualization libraries.
- **Data Processing:** Strong capability in exploratory data analysis and feature engineering, with proven ability to identify meaningful patterns.
- **Visualization Design:** Expert at creating compelling data visualizations that effectively communicate complex insights.
- **Model Development:** Skilled in evaluating model performance metrics and selecting optimal approaches for specific use cases.

## FULL-STACK DEVELOPMENT

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- **Frontend Technologies:** HTML, CSS, JavaScript with expertise in modern frameworks including React, Vue.js, Bootstrap, and Tailwind CSS.
- **Backend Development:** Proficient in Laravel, Node.js, and Django, with extensive API development experience.
- **Database Expertise:** Comprehensive knowledge of both SQL (MySQL, PostgreSQL) and NoSQL (MongoDB) database systems.

## SOFT SKILLS

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- **Communication:** Clearly explaining complex technical concepts to non-technical audiences
- **Analytical Problem-Solving:** Strong track record of identifying and resolving complex challenges in data science projects.
- **Strategic Thinking:** Skilled at evaluating data quality and making data-driven decisions.
- **Curiosity and Adaptability:** Actively pursuing new developments in AI and data science, with a commitment to staying current with industry trends.
- **Time Management:** Prioritizing tasks efficiently and strategically and Meeting deadlines consistently and reliably
- **Teamwork:** Collaborating effectively with diverse team members

## COURSES TAUGHT

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2024 Introduction to business analytics  
2024 Introduction to machine learning  
2023 Data Analysis with Python, Lecturer  
2023 Introduction to Artificial Intelligen

2020 **Database Management System**  
2020 **Cloud computing**, Lecturer  
2019 **Introduction to machine learning**  
2019 **Introduction to computer programming**  
2018 **General Mathematics**, Lecturer

## **PUBLICATIONS**

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### **PUBLISHED**

**Mustpha,A.A**, Ahmad, I. S., Bichi, A.S, Jibiya, F.I, Rabi, N.B. 2024. Transformer-based Purchase Intention Mining: A Comparative Study Using A Novel Dataset.The 5th International Electronic Conference on Applied Sciences session Computing and Artificial Intelligence. Available at <https://sciforum.net/paper/view/20798>

**Jibiya, F.I**, Ahmad, I. S., Umar,H.A, Bichi, A.S. 2023. A hybrid modelling approach for prediction of Unemployment rate in Nigeria. 2nd International Conference on Computing and Advances in Information Technology (ICCAIT 2023)

### **ACCEPTED**

**Bala, M**, Amina I.A, Abdulhamid A, Bichi A.S, Hafsa K.A, Sani A.S, Idris A, Shamsuddeen H.M, Ibrahim S.A, HausaNLP at SemEval-2025 Task 3: Towards a Fine-Grained Model-Aware Hallucination Detection. View at: <https://arxiv.org/abs/2503.19650>

### **IN REVIEW**

**Bichi, A.S**, Ahmad, I. S., Mustpha,A.A, Jibiya, F.I, Rabi, N.B. 2024. Lexical-Semantic Based Machine Learning Model for Fake News Detection. Artificial Intelligence and Applications (AIA).

**Rabi, N.B**, Ahmad, I. S., Mustpha,A.A, Jibiya, F.I, Bichi, A.S. 2024. Extractive Text Summarization Model for Hausa Language.  
Nigeria Journal of Computing, Engineering and Technology.

## **REFEREES**

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**Dr. Shamsuddeen Hassan Muhammad**, Department of Computing Imperial College London

- Email: [s.muhammad@imperial.ac.uk](mailto:s.muhammad@imperial.ac.uk)

**Dr. Bello Shehu Bello**, Department of Computer Science, Bayero University Kano

- Email: [bsbello.cs@buk.edu.ng](mailto:bsbello.cs@buk.edu.ng)

**Dr. Ibrahim Said Ahmad**, Institute for Experiential AI, Northeastern University

- Email: [i.ahmad@northeastern.edu](mailto:i.ahmad@northeastern.edu)