

Akinboye Yusuff

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Profile

As an Educator, Software Developer and Machine Learning Engineer, I have extensive experience teaching and mentoring students in programming, data analysis, and software engineering. I combine strong instructional skills with advanced technical expertise in machine learning, software development, and database design. I am proficient in programming languages such as Python, SQL, C#, Java, PHP, HTML5, and CSS, and I am well-versed in technologies including the Laravel framework, Django, TensorFlow, MS SQL Server, MySQL, Power BI, and WordPress.

Education

Master of Science, Advanced Computing, Morgan State University, MD, USA **12/2024**

Bachelor of Technology, Computer Science, Ladoke Akintola University of Technology, Ogbomoso, Nigeria **12/2010**

Teaching Experience

Computer Programming Instructor, Minnesota State Community and Technical College, MN, USA

January 2025 – Till Date

- Assigned Courses: SQL, Scripting for Automation, Software Security and Testing

Teaching Assistant, North Dakota State University, Fargo, ND

January 2022 – September 2022

- Grading Database Systems (CSCI 366)
- Tutoring Comparative Programming Languages (CSCI 372)

Work Experience

IT Intern, IT Dept., University Dining, NDSU, Fargo, ND

June 2022 – August 2022

- Developing, testing, and debugging programs using the appropriate database and programming technologies
- Designing SQL views for Power BI presentations and optimizing queries to support management in making informed decisions

Achievement: I updated the issue resolution software used for the 2022 USA Wrestling Junior and 16U National Championships

Software Developer, Landmark University, Nigeria

November 2017 – December 2021

- Writing, testing, and debugging programs using the appropriate database and programming technologies.
- Maintaining existing software programs
- Analyzing the performance of programs

Software Engineer, Cloudware Technologies, Nigeria

November 2016 – November 2017

- Software and web development | Database Design and Development

Publications

- Olabode, A.O, Ajao, T.A , Ganiyu, R.A , Amusan, D.G, **Yusuff, A.K** and Folowosele, A.B. Comparative Evaluation of Self-Organizing Feature Map and Back Propagation Neural Network for Multimodal Biometric Systems. International Journal of Advanced Research in Computer Engineering & Technology (IJARCET) Volume 8, Issue 8, pp 335-347, August 2019.
- Olabode, A.O and Rotimi, O.A , Ajao, T.A and **Yusuff, A.k**. Efficiency Analysis of Blind Tree Based Search Algorithms Performance Based on Time, Number of nodes and Memory. International Journal of Scientific & Engineering Research Volume 10, Issue 7, pp 663-671 July-2019

Research & Projects

- **MediFriend AI**

A web application developed in Django utilizing Retrieval-Augmented Generation (RAG), an AI technique that enhances large language models (LLMs). This application enables medical students to ask any medical-related questions.

Link: <https://www.medifriend.ai>

- **Brain Tumor Detection**

I developed several models to detect brain tumors using selected Transformer architectures (neural networks that convert an input sequence into an output sequence). In addition to building these models, I also implemented eXplainable AI (XAI) algorithms to provide explanations for the model's detection outcomes.

Link: <https://github.com/akinboye/Brain-Tumor-Classification-using-Transformer/blob/main/transformer.ipynb>