AKINBOYE YUSUFF

ML Engineer • Data Analyst • Software Developer

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PROFESSIONAL SUMMARY

Results-driven ML Engineer and Software Developer with an MS in Advanced Computing (Morgan State University) and 8+ years of industry and research experience. Expertise spanning machine learning, deep learning, computer vision, NLP, data analytics, and full-stack software development. Published researcher in healthcare AI and explainable AI systems. Proven ability to build and deploy production-grade AI solutions, design robust software architectures, and communicate data-driven insights to diverse audiences.

EDUCATION

M.S. Advanced Computing *Dec 2024*

Morgan State University, MD • Project: Brain Tumor Classification using Transformer Architectures with Explainable AI

B.Tech. Computer Science *Dec 2010*

Ladoke Akintola University of Technology, Nigeria

PROFESSIONAL EXPERIENCE

Software Quality Assurance Engineer *Jan 2026 – Present*

Upskill Consultancy, USA

- Design and execute comprehensive test plans, test cases, and scripts to ensure software quality across platforms.
- Perform functional, regression, integration, and UAT testing; utilize automated testing tools to improve coverage and reduce time-to-market.
- Collaborate with dev teams and stakeholders throughout the SDLC to enforce quality standards and resolve defects.

Computer Programming Instructor *Jan – Dec 2025*

Minnesota State Community and Technical College, MN

- Delivered instruction in SQL, Scripting for Automation, and Software Security & Testing; developed lab-based hands-on projects bridging theory and practice.
- Integrated industry trends (DevOps, secure coding, software testing) into curriculum, preparing students with market-ready skills.

Software Developer *Nov 2017 – Dec 2021*

Landmark University, Nigeria

- Developed, tested, and maintained enterprise applications; designed database solutions for academic and administrative systems.
- Implemented Power BI dashboards and SQL optimizations to support data-driven institutional decision-making.

Software Engineer *Nov 2016 – Nov 2017*

Cloudware Technologies, Nigeria

- Built web applications and enterprise software using modern frameworks; performed database design and optimization for client projects.

TECHNICAL SKILLS

Languages: Python, Java, C#, JavaScript, PHP, SQL	ML/AI: TensorFlow, PyTorch, scikit-learn, Transformers, XAI
Web/Backend: Django, Laravel, HTML5, CSS, REST APIs	Data & BI: Power BI, Pandas, NumPy, Matplotlib, ETL
Databases: MS SQL Server, MySQL, PostgreSQL	Cloud & DevOps: Azure, AWS, GCP, Docker, Git, CI/CD
Testing: Selenium, JUnit, Jest, Postman, Test Automation	Healthcare AI: Medical Imaging, RAG, Clinical Decision Support

KEY PROJECTS & RESEARCH

- **MediFriend AI** — Django/RAG healthcare education platform using LLMs for evidence-based medical Q&A (medifriend.ai)
- **Brain Tumor Classification** — MS thesis; Vision Transformer + Explainable AI pipeline for interpretable medical image diagnosis
- **MedimageCleaner** — Open-source Python library (PyPI) for medical imaging dataset preprocessing and quality control
- **Ensemble Learning for CVD Prediction** — Published research comparing HBL and EBL stacking architectures for cardiovascular disease prediction

CERTIFICATIONS

- **Microsoft Certified: Azure AI Fundamentals (AI-900)** — Microsoft
- **Microsoft Certified: Azure Data Fundamentals (DP-900)** — Microsoft
- **Microsoft Certified: Azure Fundamentals (AZ-900)** — Microsoft
- **GitHub Copilot Certification** — GitHub / Microsoft

PROFESSIONAL MEMBERSHIPS

- Member, Association for Computing Machinery (ACM)
- Member, ACM2Y (2 Year College Instructor)
- Member, Computer Professional Registration Council of Nigeria (CPN)

SELECTED PUBLICATIONS

Olabode, A.O., Ajao, T.A., Ganiyu, R.A., Amusan, D.G., Yusuff, A.K., & Folowosele, A.B. (2019). Comparative Evaluation of Self-Organizing Feature Map and Back Propagation Neural Network for Multimodal Biometric Systems. *IJARCET*, Vol. 8(8), pp. 335–347.

Olabode, A.O., Rotimi, O.A., Ajao, T.A., & Yusuff, A.K. (2019). Efficiency Analysis of Blind Tree Based Search Algorithms. *International Journal of Scientific & Engineering Research*, Vol. 10(7), pp. 663–671.