

Oreofe Jason Jolaolu

Data Scientist

Profile Summary

A highly motivated data science graduate with a distinction level MSc and a strong research background in machine learning, deep learning, and NLP. Proven research capabilities through first-author publications in peer-reviewed journals and hands-on experience leading novel research projects in deepfake detection and low-resource language processing. Additionally, I am a product reviewer and I identify gaps in products/systems that need improvement. I also execute audits to ensure compliance with quality standards and inform project stakeholders on areas that require improvement (via reports and presentations). Currently working on research project related to Quantitative Modeling for AI Risk Pathways

Education

MSc in Data Science (Distinction)

- **University of East London**
- **Thesis:** "Utilising a Clustering Model to Understand Patterns in Crime for Selected Nigerian Regions."
- **Relevant Coursework:** Data Ecology, Quantitative Data Analysis, Spatial Data Analysis, Predictive Analytics & Machine Learning.

BSc in Computer Science (Second Class Upper Honors)

- **University of Ibadan**
- **Relevant Coursework:** Algorithms, Data Structures, Statistical Inference, Database Systems.

Technical Skills

- **Programming Languages:** Javascript, Python, SQL
- **Machine Learning & Deep Learning:** Transformers, TensorFlow, PyTorch, Scikit-learn, CNN, RNN, LSTM, Model Training & Evaluation, Hyperparameter Tuning
- **Natural Language Processing (NLP):** Text Classification, Sentiment Analysis, Tokenization

- **Databases & Data Engineering:** Azure SQL, MySQL, PostgreSQL, MongoDB, SQL Server, Web Scraping (Beautiful Soup, Scrapy), API Development, ETL Pipelines
- **Tools & Frameworks:** Docker, QGIS, Google Colabs, Microsoft SharePoint, GitHub Copilot, Google Cloud.
- **LLM Expertise:** Hyper parameter tuning, Supervised / Instruction fine tuning. Model Evaluation.

Research & Professional Experience

Independent Researcher | Silver Technologies

- Research associate on investigation and development of quantitative, actionable models supporting the development of AI safety and governance ecosystems (specifically related to Dynamic Adversarial Pathway Analysis (DAPA) frameworks).
- Spearheaded a research initiative on deepfake detection, developing and benchmarking deep learning models to identify synthetic medical imagery, resulting in a peer-reviewed publication.
- Led a project on low-resource language NLP, applying signal processing (MFCC feature extraction) and deep learning models (RNNs, LSTMs) for speech detection in Nigerian languages, leading to a published research paper.
- Managed end-to-end research lifecycle for research project on multilayer hate speech detection project: from literature review and hypothesis formulation to data curation, custom model development, experimentation, and technical writing.
- Served as a product tester for over 20 products including Facebook products/features. Tested and reviewed AI Agents integrated with CRMs and productivity tools.
- Over six years of experience in designing and delivering educational curriculum. Lead trainer for a data science and cloud computing technologies training sponsored by the Akwa Ibom state government in Nigeria.

Digital Content Manager | Data Analyst – Industracom

- Responsible for retrieving, cleaning, analysing, and visualizing data to support business decisions across sales, marketing, customer retention and operations for over 300 SaaS customers/subscribers.
- Worked with Azure SQL Database to extract and manage large datasets. Using Microsoft Excel & Google Spreadsheets, I performed in-depth data analysis, and created reports to identify trends and key performance indicators (KPIs).

Publications

- Benchmarking Deep Learning Architectures for Deepfake Detection in Medical Images." *Nigerian Journal of Pure and Applied Sciences* (2025). **DOI:** 10.48198/njpas/24.b38
- Evaluating Machine Learning Models for Nigerian Languages Audio Classification Using MFCC Features. *Nigerian Journal of Pure and Applied Sciences* (2025). **DOI:** 10.48198/njpas/24.b05
- A Comprehensive Study of Crowd-Sourced Phishing Submission Dynamics: Trends, Patterns, and Insights for Effective Countermeasures. *Zenodo* (2024). **DOI:** 10.5281/ZENODO.15521941
- Utilising a Clustering Model to Understand Patterns in Crime for Selected Nigerian Regions. *Zenodo* (2024). **DOI:** 10.5281/ZENODO.15426419
- **Curated Dataset:** Hate Speech Dataset From Online Discussion Forum

Awards, Honours & Credentials

- **Certificate of Excellence in Reviewing:** AIR Journal (Academic)
- **Accelerated App Development Using GitHub Copilot:** Microsoft Learn
- **Best QA Insight Award:** Testathon World Tour: Global App Testing
- **Prize Winner:** National ICT Youth Leadership Summit
- **Usman Tukur Award:** For Best Result in Mathematics

Leadership & Service

- **President** – Nigerian Association of Computer Science Students, University of Ibadan Chapter. Managed a team of 10 executive members, organized technical workshops, and represented student interests to the faculty.
- **Lead Facilitator** – Data Analysis and Data Science Training for 100 participants, Akwa Ibom State, Nigeria.
- **Lead Facilitator** – Microsoft SharePoint Server Training for INEC Administrators across 36 states of Nigeria.