Steve Nwaiwu

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Research-driven AI practitioner and emerging scholar specializing in Explainable AI, robust machine learning, and neuro-symbolic reasoning. Strong programming and analytical skills with hands-on experience in data analysis, NLP, and deep learning. Adept at diagnosing model behavior, evaluating reliability under adversarial and environmental perturbations, and developing interpretable, fair, and trustworthy AI systems. Motivated to advance real-world, high-impact research at the intersection of transparency, robustness, and intelligent autonomous systems.

Education

Jun 2024 - Dec 2025

Master of Science (Research): Data & Information Science
Rajamangala University of Technology, Thanyaburi, Thailand
Master's Thesis — *Sentinel: A Causally-Grounded and Robust Architecture for Reliable Hate Speech Detection*
Research Plan: Focused on Natural Language Processing (NLP) with emphasis on text understanding and social media analytics. The research investigates advanced machine learning and large language model (LLM) fine-tuning techniques for misinformation and hate speech detection, while addressing broader challenges of explainability, trust, and generalization in modern language models. It further explores text classification, discourse analysis, and transformer-based modeling, aiming to develop approaches that are both effective and interpretable for real-world social impact applications.

Jul 2020 - Apr 2024

Bachelor of Science: Big Data Analytics & Management
Rajamangala University of Technology, Thanyaburi, Thailand
Thesis Project: Conducted an applied research project on the design and implementation of a centralized interactive analytics dashboard for the Faculty of Science and Technology. The study explored methods for integrating heterogeneous institutional datasets into a unified information system to enable data-driven performance monitoring and cross-departmental analysis. The system employed real-time visualization, reporting, and trend-tracking tools to enhance data accessibility, transparency, and decision support for faculty administrators. Findings demonstrated how evidence-based insights and visualization frameworks can improve institutional performance evaluation and establish a scalable foundation for future academic analytics research.

Sep 2008 - Dec 2011

National Diploma: Computer Science
Yaba College of Technology, Nigeria
Completed applied computer science projects with a focus on software development and database management. Developed small-scale applications, performed systems analysis, and gained hands-on experience in programming, teamwork, and problem-solving. Built a strong foundation in core computing principles that supported further study and professional growth in data science and machine learning.

Employment

Feb 2020 - Jul 2023

Web Developer
Optice Tech LLC, Wyoming, USA

- Drove website visibility and growth via strategic Google SEO and ad campaigns meeting budget targets and increasing organic reach.
- Engineered dynamic front-end experiences using WordPress, developing custom web pages, plugins, and functionality enhancing user satisfaction.
- Integrated emerging web technologies to maintain and upgrade website features ensuring modern and optimal user experience.
- Partnered with clients to troubleshoot and resolve website issues leading to performance optimizations and swift resolution of queries.

Nov 2011 - Mar 2020   ■   **IT Support**
Heritage Solutions & Technology, Lagos, Lagos Mainland

- Provided comprehensive onsite and online technical support diagnosing issues and explaining solutions to restore service and functionality.
- Developed and delivered targeted training programs improving new customer satisfaction and onboarding.
- Managed system integrity by executing software updates and security patches safeguarding against vulnerabilities.
- Increased customer retention by 30% through high-quality IT training and effective technical support.

Skills

Machine Learning	**Natural Language Processing**
Explainable AI	**Research Writing**
Python	**Analytical and Critical Thinking**
Data Analysis	

Languages

English

Academic Publications

■   **The brittleness of transformer feature fusion: A comparative study of model robustness in engineering misinformation detection**
Published in ELSEVIER - Results in Engineering
https://doi.org/10.1016/j.rineng.2025.107783

■   **Decoding disinformation: A feature-driven explainable AI approach to multi-domain fake-news detection**
Published in MDPI - Applied Sciences
https://doi.org/10.3390/app15179498

■   **Fine-tuned BERT model for hate-speech detection in political discourse**
Presented at International Conference on ICT and Knowledge Engineering, IEEE
https://doi.org/10.1109/ICTKE62841.2024.10787162

■   **Parameter-efficient fine-tuning for low-resource text classification: a comparative study of LoRA, IA3, and ReFT**
Published in Frontiers - Frontiers in Big Data
https://doi.org/10.3389/fdata.2025.1677331

Internships

Jun 2023 - Sep 2023   ■   **Data Analyst**
Academic Resources Institute, RMUTT, Thailand
- Designed and maintained data visualization tools and dashboards that simplified complex datasets, ensuring stakeholders could rapidly understand performance and make informed decisions.
- Performed comprehensive data analysis to uncover critical patterns and trends, delivering actionable intelligence that directly supported strategic planning within the Institute.
- Spearheaded the implementation of visualization methodologies that significantly improved the communication of performance metrics and resource allocation within the Academic Resources Institute.

References

References available upon request.