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Ridwan Oluwaseun BELLO

Machine Learning Researcher

Google Scholar: ridwan-o-bello
GitHub: ridwanbello

PhD student in Computer Science with a focus on Machine Learning, Speech Recognition, and Computer Vision. Experienced in dataset curation, multimodal data annotation, and training custom models for real-world applications. Skilled in processing image datasets using OpenCV and PyTorch, including the development of custom facial expression datasets for robust emotion recognition systems. Interested in applying ML and deep learning techniques to archival preservation, topic modeling, and enhancing access to historical data through AI models.

SKILLS

Programming Languages Python, JavaScript, PHP, SQL, MongoDB
Machine Learning Proficient in Pytorch, Tensorflow, FastAPI, HuggingFace

RESEARCH PROJECTS

Racial Bias in Facial Expression Recognition Datasets: Evaluating the Impact on Model Performance January, 2022
Masters Thesis

- Investigated racial and demographic bias in commonly used facial expression recognition datasets
- Collected and annotated over 3,500 Nigerian facial images to enhance multi-ethnic facial expression systems
- Fine-tuned the VGGFace model to classify five common facial expressions using the custom dataset, achieving 83% accuracy on the validation data.

Accent Recognition for African English Dialects August, 2024
PhD Dissertation

- Investigating accent classification for underrepresented African English dialects using speech data.
- Curating and pre-processing regional audio datasets with Librosa to support low-resource speech modeling.

EDUCATION

Ph.D in Computer Science, *University of Alabama, Tuscaloosa, USA* August 2023 – December 2026
Master of Science in Computer Science (6.97/7.0), *University of Ibadan, Ibadan, Nigeria* January 2022
Bachelor of Science in Computer Science (4.58/5.0), *Fountain University, Osogbo, Nigeria* August 2017

TECHNICAL EXPERIENCE

Web Developer / CBT Software Development Jan 2022 — Aug 2023
Distance Learning Center, University of Ibadan Oyo, Nigeria

- Developed and managed the Student Admission and Examination web portal for over 5,000 students.

Python Developer / Machine Learning - Fraud Detection March, 2022
Gavel Inc. Oyo, Nigeria

- Engineered a Natural Language processing system to detect fraudulent texts, phone numbers, emails and web links using FastAPI Python framework with an **error rate of 15%**.

Full Stack Developer / Case Management System. Mar 2021 — Aug 2021
Gavel Inc. Oyo, Nigeria

- Developed and maintained the Lagos State Case Management System, increasing the rate of justice delivery by **30%**.

ACTIVITIES/VOLUNTEERS

Financial Secretary, National Association of Computer Science Students, Fountain University, Osogbo, Osun State, Nigeria Chapter June 2016 – July 2017

General Secretary, Agro-Allied National Youth Service Corps (NYSC) Community Development Service Group, Bosso, Niger State January 2018 – September 2019