

# BUSAYO AWOBADE

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Lagos, NG

## RESEARCH INTEREST

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Research Engineer with over 3+ years of experience in cutting-edge research and algorithm development to tackle real-world challenges. My research interests encompass low-resource NLP, speech processing, efficient machine learning, and multilinguality. I am seeking opportunities to engage in impactful research that addresses complex problems and advances the state and adoption of AI, particularly in low-resource communities worldwide.

## EDUCATION

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**Bachelor of Science in Computer Science**, Federal University of Agriculture, Abeokuta 2017 - 2023

**Deeplearning.ai**: Neural Networks and Deep Learning, Structuring Machine Learning Projects, Convolutional Neural Networks, Sequence Models;

## PUBLICATIONS

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- **Busayo Awobade**, ..., Tobi Olatunji. AfriVox: Probing Multilingual and Accent Robustness of Speech LLMs. *Under review @ ACL ARR 2025*.
- Gabriel Zencha Ashungafac, Mardhiyah Sanni, **Busayo Awobade**, Alex Gichamba, Tobi Olatunji. AfriSpeech-MultiBench: A Verticalized Multidomain Multicountry Benchmark Suite for African Accented English ASR. *IJCNLP-AAACL 2025*.
- Chris Emezue, NaijaVoices Community, **Busayo Awobade**, et al. [The NaijaVoices Dataset: Cultivating Large-Scale, High-Quality, Culturally-Rich Speech Data for African Languages](#). *InterSpeech 2025*.
- Mardhiyyah Oduwole, ..., **Busayo Awobade**, et al. [The Role of Data Augmentation in African Machine Translation](#).
- **Busayo Awobade**, Mardhiyyah Oduwole, Steven Kolawole. [What Happens When Small Is Made Smaller? Exploring the Impact of Compression on Small Data Pretrained Language Models](#). *AfricaNLP 2024*.

## EXPERIENCE

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**Machine Learning Research** | Intron

Nov. 2024 - Present

- Building a **multilingual speech-recognition model covering 20 African languages with full parallel translation** among them.
- Built a **multilingual speech-recognition model** covering 10 African languages for (X-X) transcription and (X-english) translation.
- Developed a **production pipeline for AfroTTS**, a multispeaker, African-accented TTS system supporting 40 african accents.
- Designed and executed a **benchmarking framework to evaluate multimodal and unimodal ASR models on African languages**, including language-agnostic post-processing.
- Created the **Afrivox Benchmark**—a comprehensive ASR & AST evaluation suite for **20 African languages**.

**Machine Learning Research** | Babs

Jan. 2024 - Jun. 2024

- Trained and evaluated **TTS models** for 3 African languages (**Yoruba, Swahili, and Hausa**) using the **VITS architecture** on publicly available African speech corpus.
- Extended **Meta's MMS model to produce better natural sounding Yoruba and Hausa speech** using the common voice aligned corpus.
- Led the research on **speech-to-speech translation with expressivity transfer** which followed Meta's Seamless Expressivity work.

- Built a **cascaded speech-to-speech translation system** using ASR (**whisper**), TTT (**m2m100**) and expressive TTS model, **Bark**.

**Machine Learning Researcher** | MLCollective

Nov 2023 - Present

- Leading the research team for the local chapter (Nigeria); Helping young research enthusiast find their footing in ML research.
- Moderating talk sessions, meetups, presentations, and webinars on NLP.

**Founding Machine Learning Engineer** | ASAnalytics (now NazariAI)

Mar. 2022 - Dec. 2022

- Awarded **\$115k grant** in funding from the Algorand Foundation to build the **ASAnalytics** platform;
- Set up **CI/CD pipeline** for model and application server using **GCP cloud build** and **GCP cloud run**.

**Data Science, Intern** | Zummit Info Labs

June. 2021 - Oct. 2021

- Built an object detection model to detect and classify road traffic signs using a **yolo** model coupled with a deep learning classifier to correctly classify detected traffic signs according to their respective classes for autonomous vehicles.
- Trained a race detection model for a machine learning system that detects racial profiling and racial bias amongst airport security using Google's **FaceNet** to generate face embeddings passed into a **Lightgbm** classifier.
- Used **Dlib**, **Mtcnn**, **OpenCV** to build face detection and recognition system for vehicle security.

## PROJECTS & AWARDS

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### Algorand Foundation Grant Award - Algorand Foundation

- Awarded **\$115k** to build an opinion mining platform for the algorand ecosystem. (2022)

### Best Poster Awards - Deep Learning Indaba

- Won best poster awards at the 2023 Deep Learning Indaba for **What happens when small is made smaller?**.

### Omdena Communities

- Led the machine learning team for the Columbia community to build a multilingual **bertTopic** model for both Spanish and English topic generation on tweets/reddit posts to monitor the 2021 Columbia nationwide project. (2021)
- Using **Yolo-v5**, **docker** and **AmazonEC2**; built a machine learning solution to speed up (**2x**) tea-leaf processing for the Sri-Lanka Tea industry. (2021)

### DSN Data Science Hackathon - Data Scientist Network

- Finished **1st placed runner-up** amongst 750 skilled Data scientist at the DSN nationwide hackathon. (2020)

### UmojaHack Africa - Umoja, Kenya

- Led my university to a **3rd runner-up finish** as the **4th best AI university in Nigeria in 2021**.

### AXA Nigeria 2020 Hackathon - AXA Mansard

- Led my university to a **5th place finish** at the AXA-Mansard Insurance claim hackathon. (2020)

## VOLUNTEER ACTIVITIES

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- Peer Reviewer AfricaNLP@ICLR '24, EMNLP '23, TinyPapers@ICLR '23.
- Co-organizer; Masakhane's EfficientNLP workshop at Deep Learning Indaba 2023.
- Co-Lead and Mentor at MLCollective's Nigeria local chapter.
- Ex-lead for the AI community at Federal University of Agriculture, Abeokuta;