Sharon Ibejih

Lagos, Nigeria

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Education

B.Sc. (Hons), Physics
Michael Okpara University, Abia State, Nigeria.   *2013 - 2017*
CGPA: 4.10/5.00

Cloud Developer Nanodegree
Udacity   *2022*

Skills

Stack: Python, NumPy, Pandas, Matplotlib, Scikit-learn, Selenium, spaCy, WandB, Streamlit, Flask, Docker, Git, SQL Server, TensorFlow

Work Experience

Sterling Bank Ltd., Lagos – Data Scientist
Jan. 2023 – Present
Sterling Bank Plc. is a commercial bank in Nigeria that provides services to individuals, small businesses and large corporations.
- Developed a social media know-your-customer cross-selling strategy that personalises product recommendations to customers based on their social media interests.
- ATM usage analysis to estimate and recommend to customers the nearest bank's ATM based on their regular transaction locations.
- Transaction narratives analysis for personalised email marketing.

Insidatics AI Inc., Delaware – ML Software Engineer
Feb. 2022 – Oct. 2022
Insidatics is a machine learning startup with a product that helps financial institutions predict the credit worthiness of customer(s).
- Developed a fraud detection model development pipeline.
- Collaborated with the Backend team for the API development, and testing of endpoints for bug fixes.
- Developed building materials price prediction model for a client.

Data Scientists Network (DSN), Lagos – Research & Solution Analyst
Oct. 2020 – Apr. 2022
- Managed the development process of an EdTech product.
- Co-wrote the AI Ethics document for the organisation.
- Developed a Pidgin speech recognition model that gave the organisation an international contract for local Nigeria speech recognition.
- Developed an end-to-end audio analytics pipeline for an organisation to help them understand their call-centre data. This entailed building a speaker diarizer of "who spoke when", speech transcription and sentiment analysis.
- Carried out machine learning research experiments for publications.

Kadatemy – Instructor (Part-time)
Jan. 2020 – Apr. 2021
Kadatemy is an online data school in Nigeria
- Created course curriculum and content for data science and machine learning.
- Taught students specific topics.
- Mentored and assisted students through their coursework and projects.

Projects

Hotels' Reviews Analysis using NLP
Feb. 2023

- Scraped the Google Maps reviews of the top 5 luxury hotels in Nigeria using Selenium.
- Cleaned and analysed the sentiments using VADER.
- Developed a topic model using Latent Dirichlet Allocation (LDA) and visualizing run experiments with Weights Biases.
- Adopted spaCy and n-largest for text summarization (based on sentiment and topic) using frequency ranking.
- Developed an interactive web app using Streamlit.

Speech Recognition for Nigerian English Church Sermons
Dec. 2022

- Coordinated the data collection and transcription of the Church's sermons.
- Developed a speech recognition model with the sermon data. The model had a word error rate of 22%.
- Deployed the model as a RESTful API, using Flask.

Some Research Publications

Oyewusi, W. F., Adekanmbi, O., **Ibejih, S.**, Osakuade, O., Okoh, I., & Salami, M. (2021). AFRIFASHION1600: A Contemporary African Fashion Dataset for Computer Vision. *In Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (pp. 3968-3972).*

Oyewusi, W.F., Adekanmbi, O., Okoh, I., Onuigwe, V., Salami, M.I., Osakuade, O., **Ibejih, S.**. & Musa, U.A. (2021). NaijaNER: Comprehensive Named Entity Recognition for 5 Nigerian Languages. *arXiv preprint arXiv:2105.00810.*

Ibejih, S., Oyewusi, W. F., Adekanmbi, O., & Osakuade, O. (2022, March). EDUSTT: In-Domain Speech Recognition for Nigerian Accented Educational Contents in English. In 3rd Workshop on African Natural Language Processing

Community Activities & Talks

She Code Africa
DS/ML/AI Technical Coordinator   *Dec. 2020 - Jan. 2022*

AI Saturdays Lagos
Cohort 7 Co-organiser and Mentor   *Sept. 2021 - Jan. 2022*

ESCALATOR
Computational Research and Open Science Community Mentorship Indaba   *Apr. 2021*

ICLR 2022
ICLR Conference Volunteer   *Apr. 2022*

AI Saturdays Lagos Meetup
Speaker: Opportunities in Machine Learning   *Sept. 2022*

DataFest Africa
Speaker: Who is a Researcher?   *Oct. 2022*

Microsoft Excel Office Hour
Workshop: Machine Learning Experiment Tracking with MLflow   *Feb. 2023*

Tech In Heels
Keynote Speaker: Empowering Women Through AI: Strategies for Career Success   *Aug. 2023*