# **SHARON IBEJIH**

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#### **EDUCATION**

2013 – 2017 B.Sc. Physics

Michael Okpara University of Agriculture, Umudike, Abia State.

CGPA: 4.10 / 5.0

#### **CERTIFIED COURSES**

2022 Udacity: Cloud Developer Nanodegree

#### **TECHNICAL STRENGTHS**

Stack Python, NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn, Pytorch, Flask,

Docker, Git, Bash, AWS(IAM, EC2, S3, SageMaker)

#### **WORK EXPERIENCE**

Jan 2023 - Date Data Scientist (Full-time)

Sterling Bank Plc.

 $\circ$  Developing a social media analytics tool for customers for personalised marketing.

Feb - Oct 2022 Machine Learning Software Engineer (Remote Contract)

Insidatics AI Inc., Delaware

- Collaborated with the team to develop training pipelines for credibility and fraud detection machine learning models.
- $\circ$  Partook in the DevOps processes for deploying the software solutions on the cloud.
- Contributed to developing python APIs for model explainability charts using shap.
- o Tested and documented the API endpoints using Postman.
- Developed and deployed building materials price prediction model for a client.

2020 - 2022 Research and Solution Analyst (Full-time)

Data Scientists Network (DSN), Lagos

 Developed a Pidgin Speech Recognition model by fine-tuning a pre-trained NeMo QuartzNet 15x5 ASR model. This project attracted an international contract.

- Experimented with KerasOCR and TrOCR for medical handwriting recognition using synthetic data. The outcome showed that these fine-tuned models performed well on the synthetic data and not on a real prescription, leading to further research.
- Co-wrote a proposal for the 2021/2022 Lacuna Funding for a community-curated local dataset on 5 Nigerian languages.
- o Developed a complete audio analytics pipeline for call-centre data. This entailed building a speaker diarizer (who spoke when) for a mono channel to separate the customers' speech from the call agents; transcribe each speech chunk to analyse the output text. The success of this project led to a bigger contract for the organisation.
- Led the collection and annotation of speech data in the team.
- o Carried out machine learning research experiments for publications.
- o Co-wrote the AI Ethics document for the organisation.
- Managed the development process of an EdTech product.
- $\circ$  Led the product and solution briefings, and ran live product demos, and prototypes.

#### **TALKS**

# 2023 Microsoft Excel Community

Virtual Speaker: Machine Learning Experiment Tracking with MLflow

This is a code lab designed to teach machine learning practitioners how to use MLflow Tracking to log experiments.

GitHub Repo

#### 2022 DatafestAfrica 2022

Physical Speaker Event Topic: Who is a Researcher?

This topic targets machine learning beginners who are curious about research. [Slide]

## 2022 AI Saturdays Lagos

PhysicalSpeaker Event Topic: Opportunities in Machine Learning from a Community Manager Perspective.

This topic aims to enlighten the audience on the broad opportunities ML can provide for community people, such as research collaborations, DevRel, etc. [Slide]

## 2022 AfricanNLP, ICLR'22

Paper Presentation on EDUSTT: In-Domain Speech Recognition for Nigerian Accented Educational Contents in English. In the 3rd Workshop on African Natural Language Processing and <u>TCNSpeech</u>: A Community-Curated Speech Corpus for Sermons. In the 3rd Workshop on African Natural Language Processing.

## 2021 **Deep Learning IndabaX Nigeria**

Paper Presentation Topic: Artificial Intelligence for Pharmacovigilance in Nigerian Social Media Texts.

# 2021 Computational Research and Open Science Community Mentorship Indaba

We shared how we manage the She Code Africa Mentorship Programmes and Projects at the event. [Slide]

# **VOLUNTEERING & COMMUNITY EVENTS**

## 2022 ICLR'22 Conference Volunteer

ICLR 2022

- Worked with other volunteers to help attendees navigate their way in GatherTown.
- Supported during the live sessions by transferring attendees' questions in the rocket chat to the Zoom chat.

## 2021 - Present Co-organiser and Mentor

AI Saturdays Lagos

- Assisting in overseeing the program operations and mentoring students.
- o Handled the Data Analysis Practical Class in Cohort 7 [Notebook]

## 2020 - 2022 Data Science Channel Lead

She Code Africa

- o Managed the community's Data Science Members.
- o Increased the number of members from 600 to 1000+
- o Introduced data hackathon for beginners
- Introduced a supervised and competitive project sprint for the members for beginners and intermediates.