

Onyedikachukwu Ojukwu

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EDUCATION

Texas Southern University

BS Student in Computer Science; **Expected Graduation Fall 2024**

GPA: 3.7/4.0; DeansList: 2022-2024

Houston, TX

August 2022 – Present

Oklahoma State University

Stillwater, Oklahoma

Aug 2017 – May 2018

PROFESSIONAL EXPERIENCE

Texas Southern University

Data Science Research Intern

May 2023 – June 2024

- Researched Alzheimer's disease and other neurodegenerative diseases by analyzing EEG signals, gaining domain knowledge.
- Used Matplotlib and Seaborn to visualize EEG datasets from the OpenNeuro repository. Applied temporal analysis on derivative data and transformed time-series data into the frequency domain using Scipy, allowing for correlation identification.
- Applied computational techniques such as FFT, and utilized the MNE library to process EEG data into epochs for CNN model fitting.
- Built a CNN model for feature extraction on time-domain data with a fully connected binary classification layer using TensorFlow. Achieved a prediction accuracy of 97.98% and an AUC score of 0.9971.

Freelance

Houston, Texas

Cloud Technician

Jan 2022 – May 2022

- Built SMTP servers on reliable cloud platforms like AWS and Azure, utilizing Ubuntu servers configured via SSH. Empowered small businesses to boost product visibility and drive traffic effectively.
- Maintained clients' products such as Email servers by ensuring the SSL Certificate is authenticated correctly to ensure reliable traffic.
- Designed and implemented a serverless API gateway using DynamoDB, leveraging NoSQL database principles and partition keys for efficiently collecting long URLs from short ID tables
- Added custom domain to API gateway to serve as a shortener for clients to present their businesses professionally.

SKILLS

Programming: C++, R, Python

Packages: scikit-learn, NumPy, pandas, PyTorch, TensorFlow, Matplotlib, Opencv, Scipy, seaborn, statsmodels

Dev Tools: AWS, Git Actions, VS Code, Jupyter, Pycharm

General: ML & DL, Software Dev, Inference, Leadership, Data Scraping, Data Cleaning, Postman Object-Oriented Programming

RELEVANT COURSEWORK

Major coursework: Data & File Structures, Introduction to Data Science and Machine Learning, Advanced OOP Using C++, Statistics For Sciences, Computer Organization, Linear Algebra, Operating Systems, Calculus II, Computer Networks

ORGANIZATIONS

Texas Southern Tigers Data Science club (TigersDSC)

Founding President

Aug 2023 – Present

National Society Of Black Engineers(NSBE)

Member

Jan 2022 – Present