Olisemeka Nmarkwe

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Education

Southeastern Louisiana University Hammond, LA

Bachelor of Science in Computer Science, Concentration: Data Science *May 2026*

- GPA: 3.72/4.00
- Honors Scholarship, EXCEL Scholarship, President's List (2022-present)

Relevant Coursework

Core CS: Data Structures and Algorithms, Operating Systems, Database Systems, Discrete Mathematics, Computer Architecture, Software Engineering
Data Science: Data Mining, Machine Learning, Calculus I and II, Computer Vision

Experience

Research Assistant, EEG Data Collection and Analysis Aug. 2024 – Present

Southeastern Louisiana University *Hammond, LA*

- Collected and processed EEG data from student participants for machine learning research under Dr. Omer Soysal
- Collaborated with research teams to ensure accurate data acquisition and analysis
- Documented procedures and findings, providing data insights for machine learning model development

Software Developer Intern May 2024 – Aug. 2024

Dialysis Care Center *Remote*

- Developed dynamic site layout and user interface using HTML, CSS, and JavaScript (AJAX) based on design concepts
- Designed and deployed a chatbot using the ChatGPT API to enhance user interaction
- Built a customized dashboard front-end to perform ping tests to check site reachability using PHP

Projects

Smart Recipe Application | *React, .NET, ChatGPT API* 2025 – Present (Ongoing)

- Developing a full-stack recipe recommendation application with personalized filters and nutritional information
- Implementing ChatGPT API integration for intelligent recipe suggestions and modifications
- Building RESTful API endpoints using .NET Core for recipe management and user preferences

EEG Classification System | *TensorFlow, Scikit-learn, MNE, Pandas* 2024

- Developed an Artificial Neural Network (ANN) for EEG signal classification with optimized architecture
- Implemented and compared multiple machine learning models (Decision Tree, KNN, SVM) using key performance metrics
- Generated and preprocessed EEG features using MNE library for enhanced model training

EEG Clustering Analysis | *Scikit-learn, SciPy, Pandas, Seaborn* 2024

- Implemented KMeans and Agglomerative clustering algorithms for EEG feature analysis
- Applied PCA for dimensionality reduction to improve clustering efficiency
- Evaluated clustering performance using cohesion and silhouette metrics

Technical Skills

Programming Languages: JavaScript, Python, C#, SQL, React, .Net, Arduino
Machine Learning: Artificial Neural Networks, Support Vector Machines, Decision Trees, Predictive Modeling
Data Science Tools: Pandas, Seaborn, Matplotlib, Scikit-learn, Tensorflow, Google Colab, Kaggle, OpenCV, HuggingFace, Yolo
Other Technologies: Oracle Apex, SEO, XAMPP, HTML/CSS, IOT
Soft Skills: Team Collaboration, Research Documentation, Technical Communication