

OLISEMEKA NMARKWE

EXPERIENCE

Research Assistant, EEG Data Collection And Analysis

Southeastern Louisiana University | Hammond, LA | August 2024 - Current

- 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

Dialysis Care Center | Remote | May 2024 - August 2024

- 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 (2025 - Present) | React, .NET, ChatGPT API

- 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 (2024) | TensorFlow, MNE, Scikit-Learn

- 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 (2024) | Scikit-learn, SciPy, Pandas, Seaborn

- 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

PORTFOLIO

- olisens.github.io

REFERENCES

References available upon request.

CONTACT

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EDUCATION

Bachelor of Science

Computer Science, Concentration: Data Science

Southeastern Louisiana University, Hammond, LA

- 3.72 GPA
- Honors: EXCEL Scholar, President's List, Honors Scholarship
- 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

Expected in May 2026

TECHNICAL SKILLS

Programming Languages

- JavaScript
- Python
- C#
- SQL
- React
- .Net
- Arduino

Machine Learning Techniques

- Artificial Neural Networks
- Support Vector Machines
- Decision Trees
- Predictive Modeling

Soft Skills

- Team Collaboration
- Research Documentation
- Technical Communication