

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, Statistics

Data Science: Data Mining, Machine Learning, Computer Vision

EXPERIENCE

Research Assistant - EEG Data Collection and Analysis

Aug 2024 – Dec 2024

Southeastern Louisiana University

Hammond, LA

- Collected and analyzed EEG data from over 10 participants, supporting ML-based brainwave classification research
- Performed statistical analysis and extracted trends across 5+ feature categories using Python and MNE
- Collaborated with 3 researchers and documented insights for publication and model refinement

Software Developer Intern

May 2024 – Aug 2024

Dialysis Care Center

Remote

- Developed a dynamic UI using HTML, CSS, and JavaScript with AJAX for patient site interfaces
- Built a chatbot using ChatGPT API and increased response rate by 30% in test environments
- Created a dashboard using PHP to monitor 5+ endpoints with real-time ping health status

PROJECTS

Fire and Smoke Detection System | *YOLO, OpenCV, Flask, Telegram API, Pygame*

2025

- Trained a YOLOv5 model on 160,000+ images; achieved 80.4 mAP@0.5 for fire/smoke detection
- Implemented real-time alerts under 3s via Telegram Bot API and integrated audio alarms via Pygame
- Optimized detection pipeline using NCNN and deployed on Raspberry Pi 4 (RAM: 8GB)
- Enabled live web monitoring using Flask; processed 200+ frames per minute

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

2024

- Developed a neural network classifier for EEG signals with 85%+ accuracy on test set
- Benchmarked ANN vs Decision Tree, KNN, and SVM models using F1-Score and Confusion Matrix
- Preprocessed EEG signals using MNE; extracted 5+ statistical and frequency domain features

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, C#, SQL

Statistics & Data Analysis: Descriptive & Inferential Stats, Hypothesis Testing, Regression (Linear/Logistic)

Data Insight Extraction: Derived insights from 10,000+ row datasets using Pandas, NumPy, Seaborn

Machine Learning: ANN, SVM, Decision Trees, Feature Engineering, Precision-Recall Evaluation

Tools & Libraries: Pandas, NumPy, Scikit-learn, TensorFlow, OpenCV, MNE, Seaborn, Matplotlib, HuggingFace, YOLO, NCNN

Platforms & Tech: Flask, Git, Oracle Apex, XAMPP, Telegram API, IoT, Dashboards, SEO

Soft Skills: Technical Writing, Data Storytelling, Analytical Thinking, Research Collaboration, Problem Solving, AI literacy