OGBOI FAVOUR

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PROFESSIONAL SUMMARY

I am a graduate with a First Class B.Sc. in Computer Science from the Federal University of Petroleum Resources, Effurun, and currently serve as the Chapter Lead for Data Science Nigeria (DSN) at FUPRE. My interests and experience lie in applying data science and machine learning to real-world problems. I have developed skills in Web development, Python programming, data analysis, and business intelligence, and have applied them through freelance projects and student-led initiatives. My short-term goal is to deepen my expertise through structured training. Long-term, I aim to become a professor in my field and to build impactful AI-driven solutions across Africa.

EDUCATION AND HONORS

Federal University of Petroleum Resources Effurun, School of Engineering and Applied Science
Delta State
Oct 2021 - Dec 2025

- Current CGPA: 4.51/5.0 (Global Scale: 3.61/4.0)
- Relevant Coursework: LLM frameworks, Deep Learning, Machine Learning, Data Science Statistics, Software Engineering, Probability & Discrete Mathematics

RESEARCH INTREST

- *Scalable Machine Learning Systems and AI Infrastructure*
  - I am interested in understanding how scalable machine learning systems and data infrastructure enable the deployment of real-world AI applications. My focus is on building reliable, production-grade AI pipelines and exploring the intersection of MLOps, database systems, and cloud-native architectures that support efficient model training, serving, and monitoring.
- *Applied Artificial Intelligence in Healthcare*
  - I am interested in exploring how robust AI systems can support healthcare delivery, particularly in disease modeling, diagnostics, and medical data analysis. I am especially interested in developing end-to-end machine learning pipelines that ensure security, interpretability, and reliability in clinical environments, while also addressing challenges in human-AI collaboration and trust.
- *AI for Autonomous Systems and Robotics*
  - I have a strong interest in creating computer vision and active perception systems that enable autonomous robots to engage with dynamic, complex environments in a safe and intelligent manner. In order to facilitate applications in industrial automation, drones, and autonomous cars, my research attempts to combine robotic decision-making, skill-learning, and real-time perception.

RESEARCH EXPERIENCE

Nov 2025 – Dec 2025. **Lead Machine Learning Engineer**

Principal Firm: Manaknight

Project Title: EcoSeek AI

Summary: Built an AI-powered product discovery platform that enables users to find products using natural language, images, and handwritten inputs, improving search relevance and user experience.

Duties: Led end-to-end development of EcoSeek AI, including data collection and preprocessing, training and deploying computer vision, NLP, and OCR models, and integrating them into a production-ready web application with performance evaluation and optimization.

Sept 2025 – Nov 2025. **Lead Research Engineer (IoT & Machine Learning)**

Principal Investigator: Nigerian Society of Chemical Engineers

Project Title: Smart Hybrid Cold Storage System for Predictive Fruit Spoilage.

Summary: Developed a smart hybrid cold storage system that integrates IoT sensor data and machine learning to predict fruit spoilage and reduce post-harvest losses.

Duties: As project lead, I performed all data collection; Model training and deployment; statistical analysis using Bayesian inference; and data visualization to find relevant insights.

July 2025 – Oct 2025 **Lead Student Researcher**

Principal Investigator: Dr. Ben Charles, FUPRE

Project Title: Development of an SMS spam detector system using Machine Learning

Summary: SMS spam detection research focuses on developing techniques to automatically identify and filter unwanted or malicious text messages (spam) from legitimate messages (ham). This research utilizes various methods, including machine learning algorithms and Natural Language Processing (NLP), to analyze message content, sender information, and other features to distinguish between spam and ham messages.

Duties: As project lead, I performed all data collection; Model training and deployment; statistical analysis using Bayesian inference; and data visualization to find relevant insights.

July 2024 – Dec 2024 **Software Programmer**

Principal Investigator: Dr. Okotie, FUPRE

Project Title: Ant Colony Optimization for Gas-Oil Ratio Estimation

Summary: Applies Ant Colony Optimization (ACO) to estimate Gas-Oil Ratio (GOR) using PVT (Pressure-Volume-Temperature) data. Inspired by the foraging behavior of ants, the algorithm identifies optimal paths for predicting GOR values, offering a novel approach to tackling reservoir engineering challenges.

Duties: Designed and implemented the Ant Colony Optimization algorithm for estimating Gas-Oil Ratio (GOR) using custom logic tailored to petroleum engineering datasets.

Aug 2024 – Oct 2024 **Lead Researcher**

Principal Investigators: Team Datafest Africa

Project Title: An Empirical Study on Factors Influencing Academic Success Through a Machine Learning Approach Using Field Survey Data from Ikorodu Secondary Schools

Summary: The project collected first-hand data via field surveys and applied machine learning techniques to uncover patterns and forecast student outcomes, with the goal of supporting early interventions and policy decisions.

Duties: Led the development of a full-stack data science project focused on analyzing and predicting the academic performance of African secondary school students.

Jan 2024 – April 2024 **Data Analyst**

Principal Investigator: Mr Toluwani. (France)

Project Title: An Empirical Study on Corrosion Inhibition Efficiency of Ewedu (Corchorus olitorius) Extract on Copper in Nitric Acid Solution

Summary: This study investigates the effectiveness of a natural plant extract (Ewedu) as a green corrosion inhibitor for copper immersed in nitric acid. Experimental data was analyzed to determine weight loss and inhibition efficiency at varying concentrations and exposure times..

Duties: I designed and implemented the data analysis pipeline in Python (Jupyter Notebook), cleaned and processed experimental Excel/CSV data, created key visualizations, and documented the entire project

CONFERENCE PRESENTATION

2025 **Host and Speaker**

Data Science Nigeria (DSN) Campus Seminar

Hosted and presented on the **Foundations of Data Science** and shared insights from my **DSN experience**, engaging a large community audience to promote data literacy and inspire aspiring data scientists.

SKILLS

- Programming Languages: Python, Java, C, C++, JavaScript, HTML, CSS
- Big Data & Machine Learning: PySpark, Hadoop, MongoDB, Python (eg. scikit-learn, numpy, pandas, matplotlib)
- Data Science & Miscellaneous Technologies: Data science pipeline (cleansing, wrangling,visualization, modeling, interpretation), Tableau, PowerBi, Statistics, Time series, Experimental design, Hypothesis testing, OOP, OOD, APIs, Excel, Git

➢ Soft Skills: Teamwork & Collaboration, Adaptability, Problem-solving, Attention to Detail, Multitasking, Organization, Data-Savvy, Task-Oriented, Decision Making, Time Management

PROFESSIONAL EXPERIENCE

SuperProf (freelance) Lagos, Nigeria

Software Engineering & Data Science Instructor
April 2021 – Dec 2025

- Mentored tech students in different countries such as USA, Canada, UK, Germany and a few more to become proficient programmers by providing comprehensive guidance and instructions on data structures and algorithms, fostering their understanding and mastery of key concepts.
- Led a project focused on machine learning algorithms for comment toxicity detection, leveraging techniques such as natural language processing and sentiment analysis to identify and classify toxic comments and a lot more.
- Guided a project centered on earthquake analysis using D3.js and Leaflet, instructing students on visualizing seismic data to analyze patterns and trends. Additionally, provided instructions on using Tableau to create interactive visualizations for city bike data, offering insights into usage patterns and demographics.

EdgeNet Consulting Nigeria
Business Intelligence Analyst & Presales Engineer
June 2024 – November 2024

- Attended and contributed to strategic meetings with the company's leadership, including discussions on ongoing contracts and upcoming opportunities.
  Worked closely with the Presales team to learn about IT solutions from OEM partners like Cisco, Fortinet, Microsoft, Oracle, and IBM to support sales efforts with technical knowledge.
- Track performance metrics (e.g., number of opportunities opened monthly, top-performing sales personnel, revenue per client) to support sales management decisions.

BT Tech Lagos,
Nigeria
Technical Assistant September 2019 – April
2020

- Streamlined office operations at BT Tech by effectively utilizing Microsoft tools
- Managed enterprise statuses and contributed to overall workplace efficiency.
- Facilitated seamless communication, documentation, and project coordination through proficiency in Microsoft technologies

TEACHING EXPERIENCE

2024. Gifted Brains Tutorial Instructor, Introduction to Computer Programming. College of Computing, FUPRE. Over 50 students.
** Recognized as a top Instructor, 2024*

2023 DLCF Tutorial Instructor, Statistics for Data Analysis. Department of Mathematics, FUPRE. Over 50 students.
** Recognized as a top Instructor, 2023*

LEADERSHIP AND DEPARTMENTAL SERVICE

Data Science Nigeria (DSN) Nigeria

FUPRE Campus Ambassador

January 2025 – Dec 2025

- Increased awareness of Data Science on campus, recruiting 150+ students into the community within 4 months.
- Organized and led weekly physical and virtual sessions every Saturday and Tuesday, ensuring students gained hands-on experience while balancing academic commitments.
- Coordinated with industry professionals to host training workshops and mentored students, maintaining high academic performance alongside skill development.

Microsoft Nigeria

Microsoft Learn Student Ambassador

Community

Sept 2023 – Aug 2024

- Actively engage with students globally through focused Leagues as a Microsoft Learn Ambassador, collaborating on leveraging technology to tackle real-world challenges and expanding my network.
- Commit to personal growth and skill-building by participating in training, certifications, and virtual events provided by the program, while also gaining insights from industry experts and mentors.
- Take pride in leadership within the local tech community by hosting digital events, offering guidance to peers, and earning recognition that enhances my resume, ultimately shaping a future where technology serves as a tool for positive change.

MEMBERSHIP OF LEARNED SOCIETIES

2025 – Pres. Student Member, STEM for Development
2024 – Pres. Google Developers Student Club
2020 - Pres Data Science Network, Nigeria
2023 - 2024 Microsoft Learn Student Ambassadors
2023 - 2025 Fupre Code Club
2023 - 2024 Streamlit Ambassadors

AWARDS

2025 **Entrepreneurship Excellence Award**
Federal University of Petroleum Resources, May 2024
Led and presented for Group 44 in the 2023/24 session, securing 3rd place out of 60+ groups and earning a cash prize for outstanding entrepreneurial performance.