DANIEL GEORGE AKINWANDE

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PROFESSIONAL SUMMARY

Driven and innovative Computer Engineering graduate with expertise in Artificial Intelligence, Machine Learning, and Software Engineering. Experienced in programming, data analysis, and embedded systems, with a proven record of academic excellence and collaborative research. Research interests include developing predictive models for real-world applications, advancing agentic AI workflows and processes, and exploring computer vision solutions. Passionate about leveraging AI-driven solutions to create technologies that deliver measurable impact across industries.

EDUCATION

Olabisi Onabanjo University, Ago-Iwoye, Ogun, Nigeria   2021 - 2025
Bachelor of Engineering (B.Eng.) Computer Engineering
Final Grade: First Class Honors   GPA: 4.57/5.0
Awards & Distinctions:
- Best Graduating Student, Department of Computer Engineering
- Outstanding Scholar Award (2022/2023)

Relevant Coursework: Artificial Intelligence, Operating Systems, Software Engineering, Embedded Systems, Assembly Language Programming.

RESEARCH SKILLS AND COMPETENCIES

Programming and ML: Python, C++, Java; experience applying Python libraries (NumPy, Pandas, scikit-learn, TensorFlow, etc.) in machine learning research and predictive modeling.
Laboratory Research: Hands-on work with embedded systems, including smoke sensor applications and hardware-software integration for real-world problem solving.
Software and Tools: MATLAB, AutoCAD, Anaconda, Jupyter Notebook, Proteus, Cinema4D, CorelDraw, Canva, Microsoft Office.
Technical Expertise: Data pre-processing, predictive modeling, feature engineering, experimental validation, embedded systems design.
Soft Skills: Critical thinking, scientific communication, leadership, teamwork, proactive problem solving.

RESEARCH EXPERIENCE

Undergraduate Researcher
Department of Computer Engineering, OOU, Nigeria (2025)
Final Year Project: *Design and Development of a Library Resource Management System - Case Study of the Engineering Campus Library.*
- Designed and implemented a system to automate cataloging, borrowing, and tracking of library resources.
- Developed features for user management, secure authentication, and real-time reporting.
- Conducted system testing with stakeholders to ensure usability and efficiency.

Independent Research (2025)
Machine Learning for Flexural Strength Prediction of Concrete Beams (Publication in view).
- Implemented and compared ML models to predict flexural strength.
- Conducted feature analysis and validation for improved dataset accuracy.

PUBLICATIONS

[In Preparation] *Design and Development of a Library Resource Management System - Case Study of the Engineering Campus Library* (Final Year Project, 2025).

[In Preparation] *Machine Learning Approaches for Flexural Strength Prediction in Concrete Beams* (Ongoing Collaboration, 2024)

INDUSTRIAL EXPERIENCE

Technical Intern - SIWES Program
VDL Technologies, Lagos, Nigeria (May – Oct 2024)
- Developed and integrated APIs, improving system integration across business applications.
- Trained and fine-tuned ML models that powered 1 business chatbot.
- Worked with the product team as a tester, identifying and documenting 30+ bugs to enhance product reliability.
- Built a backend pipeline for the company's data analytics service, enabling real-time processing of datasets with 190,000+ records.
- Contributed to cross-departmental projects, improving turnaround time for product deployment by 25%.

Data Onboarding and Software Management Intern
5TS Feelsafe Children School, Ogun, Nigeria (Apr – Oct 2022)
- Onboarded and digitized records of 70+ staff and students onto the SAFSIMS platform.
- Integrated and maintained the online fee payment feature, processing transactions for 100+ parents with improved reliability.
- Delivered hands-on training to 10+ staff members, increasing adoption rate of the platform by 80%.
- Resolved 15+ technical issues during integration, ensuring uninterrupted operation of school administration.

PROJECT EXPERIENCE

Face Drowsiness Detection (2025)
- Developed a real-time computer vision system using Python, OpenCV, and dlib to monitor eye closure via facial landmarks and Eye Aspect Ratio (EAR) calculation.
- Implemented Haar Cascade face detection and 68-point landmark prediction, triggering visual warnings and audio alerts after 2 consecutive seconds of drowsiness.
- Optimized for 640x480 webcam feeds, processing 30+ FPS to deliver seamless alerts for enhanced safety in driving and high-risk operations.

Social Media Sentiment Analysis (2025)
- Developed an NLP pipeline to analyse and classify sentiments from 10,000+ social media posts.
- Applied text pre-processing, TF-IDF, and ML models to achieve ~82% classification accuracy.
- Delivered insights into user engagement trends for potential business applications.

Email Classifier (2025)
- Designed and trained a supervised ML model to classify emails as spam or non-spam.
- Implemented feature extraction techniques (bag-of-words, word embeddings) for improved accuracy.
- Achieved >95% precision in detecting spam emails across test datasets.

Computer Programming Lab III   Department of Computer Engineering, OOU
Automatic Doorlock with Passkey Encryption   March - April 2024
- Led a collaborative team of 4 in the development of an Automatic Door Lock with Passkey Encryption system, achieved in a month, recognized as one of the top projects in the department.
- Collaborated on the integration of more than 10 hardware components, ensuring functionality and reliability.
- Contributed collectively to the design of the housing structure, optimizing both performance and aesthetics.
- Collaboratively authored a comprehensive [project report](), detailing the methodology and validation of each production step.

Student Work Experience Program (SWEP)   Department of Computer Engineering, OOU
Data Science and Machine Learning   November - December 2023
- Utilized 3 Machine Learning Models (Linear Regression, Random Forest, Decision Tree etc.) to accurately forecast prices within a substantial dataset of house pricing information.
- Analysed and interpreted the results of 3 model to discern patterns and optimize predictive accuracy (more than 70%).
- Documented findings and methodologies in a [detailed report](), providing valuable insights for future research and application

PROFESSIONAL ASSOCIATIONS

- Nigerian Universities Engineering Students Association (NUESA)
- Computer Engineering Students Association (COESA)
- The National Institute of Professional Engineers and Scientists (NIPES)

VOLUNTEERING & LEADERSHIP EXPERIENCE

AI and ML Lead – Google Developer Student Clubs (GDSC), Olabisi Onabanjo University   **2023 - 2025**
- Led 2 hands-on workshops on AI and machine learning fundamentals, engaging 60+ students and boosting attendance by 40% compared to prior events.
- Directed a team of 8 members across 3 collaborative projects, including a traffic sign recognition model and a sentiment analysis tool, resulting in 2 open-source contributions with 150+ GitHub stars.
- Mentored 20+ participants in AI/ML best practices, fostering 5 project submissions to GDSC hackathons and enhancing campus innovation culture.

Departmental Tech Lead – OOU-Tech Community   **2023 - 2025**
- Onboarded 120+ students from the department into tech initiatives, increasing departmental participation in community events by 75% and building a foundational tech-savvy cohort.
- Coordinated 4 introductory tech bootcamps focused on data basics, attracting 80+ attendees and resulting in 35 new members joining the community's active roster.
- Spearheaded cross-departmental collaborations on 2 hackathon-style challenges.

Campus Ambassador – Ingressive for Good (I4G)   **2022 - 2023**
- Organized 2 tech talks on campus to promote awareness of emerging technologies and industry trends.
- Facilitated 2 coding workshops to enhance students' programming skills and foster a culture of innovation.
- Engaged in community outreach activities to promote the benefits of digital literacy and technology education.

Youth Executive – Local Church   **2021 - 2025**

CERTIFICATIONS

Student Member – National Institute of Professional Engineers and Scientists (NIPES)
Introduction to Python Programming for Data Science Certificate, [PYTHON](#)
Google Research, TRAIL Certificate
Data Science and Data Analytics workshop training, OOU TECH Community, [Data Science](#)