

ODUFISAN, OLUWASEUN ISAAC

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RESEARCH INTEREST

Artificial Intelligence | Natural Language Processing | Multimodal Learning and Generalization | Reinforcement Learning

EDUCATION

The Federal University of Technology, Akure (FUTA), Akure, Ondo State, Nigeria.

Bachelor of Engineering in Computer Engineering (First Class Hons.) CGPA: **4.79/5.00 (96%)** (March 2024).

- **Class Rank:** 1 out of 82 students (**Top 1%**)
- **Thesis:** Facial Age Estimation Mobile App for Black Individuals; Deep Ensemble Learning with ResNet-50 and Keras.
- **Relevant Courses:** Robotics and Automation, Operating Systems, Computer Organization and Architecture, Data Communication and Network, Telecommunications Engineering, Digital Systems Design, Embedded Systems Design, Computer Graphics and Animation, Advanced Engineering Mathematics, Artificial Neural Network, Control Systems Engineering, Statistics, and Programming.

National Institute of Information Technology (NIIT), Ikeja Centre, Lagos State, Nigeria.

Diploma in Java Technologies (December 2018).

- **Relevant Courses:** RDBMS Essentials and T-SQL programming, programming in Java, HTML5 Programming, Developing Web Applications using Servlets & JSP, Implementing JSF, Hibernate and Spring in Java EE Applications, JUNIT Testing.

Yaba College of Technology, (YABATECH), Yaba, Lagos State, Nigeria.

National Diploma in Computer Engineering (Upper Credit) CGPA: **3.22/4.0 (81%)** (March 2017).

- **Class Rank:** 4 out of 66 students
- **Thesis:** Design and Construction of an Alcohol Detector.
- **Relevant Courses:** Digital Computer Fundamentals, Microcomputer Fundamentals, Programming, Computer Operations, Computer Networking, Computer Architecture, Operating Systems, Algebra and Statistics.

PUBLICATION

- Oluwaseun Isaac Odufisan, Osekhonmen Victory Abbulimen, Erastus Olarenwaju Ogunti. "Harnessing artificial intelligence and machine learning for fraud detection and prevention in Nigeria." *Journal of Economic Criminology*, Volume 7, 2025, Article 100127. ISSN 2949-7914. DOI: <https://doi.org/10.1016/j.jeconc.2025.100127>.

CONFERENCES

- | | |
|------|---|
| 2024 | Federal University of Technology, Akure 165 th Inaugural Lecture: Machine Learning: Pattern Matching and Classification Experience with Technology to Solve Human Problems. 12 th March. |
| 2023 | Annual Conference of School of Engineering and Engineering Technology (SEET), FUTA: Engineering, Technology and Scientific Innovations for National Economic Growth and Development: Computational Methods and Machine Learning in Scientific Research and Development. 7 th – 9 th November. |
| 2021 | Federal University of Technology, Akure 123 rd Inaugural Lecture: Seeking the Best Option to Life Problems: Extended Conjugate Gradient Algorithms for Constrained Optimal Control Problems. 16 th March. |
| 2019 | School of Engineering and Engineering Technology (SEET), FUTA, Symposium for 2 nd Year Students: The Role of Engineers in National Development. 28 th May. |

RESEARCH EXPERIENCE

Federal University of Technology, Computer Engineering Department, Akure.

(July 2024 - September 2024).

Research Assistant (Machine Learning Research Lab.)

- Investigated the impact of fraud on Nigeria's digital economy across finance, e-commerce, healthcare, and education sectors.
- Examined various AI methodologies, including supervised, unsupervised, and deep learning, and their use in anomaly detection, behavioral analysis, risk scoring, and network analysis.
- Proposed the future direction for AI and ML in enhancing financial crime prevention in the Nigerian digital economy.

Federal University of Technology, Computer Engineering Department, Akure.

(July 2023 - February 2024).

Undergraduate Researcher (Machine Learning Research Lab.)

Advisor: Prof. Erastus O. Ogunti | eoogunti@futa.edu.ng

- Researched "Facial Age Estimation Mobile App for Black Individuals: Deep Ensemble Learning with ResNet50 and Keras" (focusing on improving accuracy).
- Collected data on Black individuals across Nigeria and Africa for model development
- Built a deep learning model for age prediction (using Keras and ResNet50 convolutional neural network)
- Developed a mobile app to estimate the age for Black people (using React Native, Django, and SQLite)
- Authored undergraduate research thesis and presented research findings at a seminar (15-minute talk on the original research)

Federal University of Technology, Computer Engineering Department, Akure.
Assistant (Machine Learning Research Lab.)

(January 2021 – August 2021). **Research**

Lead Investigator: Mr. Abhulimen Osekhonmen | bulioses@gmail.com

Advisor: Prof. Erastus O. Ogunti | eoogunti@futa.edu.ng

- Research work on "[Cross-Racial Automatic Age Estimation from Facial Images using Deep Learning](#)".
- Collaborated with researchers to implement transfer learning on a ResNet50 convolutional neural network for age estimation.
- Assisted with optimizing model performance by adjusting training parameters.
- Prepared bi-weekly reports on research progress.
- Provided administrative and office support to the research team.

WORK EXPERIENCE

Aptech Nigeria.

(October 2024 - Present).

Advanced Software Engineering & Enterprise Application Development Instructor.

- Delivering comprehensive training in core Java, Jakarta EE technologies (Servlets, JSP, EJB), and Spring Framework.
- Instructing students on the full software development lifecycle, including front-end and back-end development methodologies, agile principles, and best practices in software design and architecture.

Alpha Instincts Technologies

(August 2023 – December 2023).

AI Systems Engineer

- Defined system requirements for a smart bra device for breast cancer detection and prevention.
- Developed system architecture framework and design.
- Designed communication flow between the bra and a mobile app for compatibility.
- Managed system risks, changes, and performance for hardware, app, and prediction model.

Machine Learning Engineer Intern

- Developed student grade prediction model to forecast performance in Lagos state's West African Senior School Certificate Examination.
- Built a chatbot tutor using Natural Language Processing to assist students.
- Collected, cleaned, and analyzed data from various API sources to support project needs.
- Led internal training sessions for teammates on data mining, information visualization, data security, and pattern recognition.

TEACHING EXPERIENCE

Machine Learning Tutor

(November 2023).

- Delivered free weekend lectures on Machine Learning and Artificial Neural Networks to classmates, enhancing their comprehension of the course.

Mathematics Tutor

(June 2022 – July 2022).

- Developed and delivered an eight-week free tutorial program to support freshman engineering students in linear algebra, matrix operations, probability, calculus, and statistics.

Java Tutor

(June 2019).

- Organized a free Java Technologies and SQL Basics workshop for undergraduate students interested in backend development.

VOLUNTEERING AND LEADERSHIP EXPERIENCE

CDS President for ICT, National Youth Service Corps, Ojodu LG

(October 2024 – January 2025).

- Lead and oversee the activities of the Information and Communication Technology (ICT) group as part of the Community Development Service (CDS) program.
- Organized and managed ICT-related projects, workshops, and training sessions for community members, providing digital literacy and helping develop solutions for local community challenges using technology.

Learning Lead, Emerging Communities Africa

(Feb 2024 – July 2024).

- Developed learning outlines and delivered basic computer skills workshops to primary school pupils in rural areas, igniting their interest in technology.

Volunteer, Pioneer Medical Initiative

(July 2022).

- Assisted with conducting health screenings (blood pressure, height, weight, and BMI) for FUTA students.

Committee Member, Major League Hacking (MLH), FUTA

(December, 2019).

- Contributed to organizing and coordinating the local hack day event, bringing together tech enthusiasts to learn Python for AI and web development.

SKILLS

Languages: Python | Java | SQL | JavaScript

Libraries: TensorFlow, ScikitLearn, Pandas, NumPy, OpenCV | React

Frameworks: PyTorch | Hibernate, Spring, JUnit | Next.js, Three.js | React Native

Platform: Google Collab, PyCharm, IntelliJ IDEA, Visual Studio Code, WebStorm, AWS, Docker, Kubernetes

Soft Skills: Excellent Communication, Team Work, Problem Solving, Time Management

Active Listening Skill: IELTS Listening Score of 9.0

PROFESSIONAL DEVELOPMENT COURSES AND CERTIFICATIONS

- Foundations of Cybersecurity (Google) | [CERTIFICATE](#) (December 2023).
- ML Engineering for Production Specialization (DeepLearning.AI) | [CERTIFICATE](#) (September 2022).
- Introduction to Machine Learning in Production (DeepLearning.AI) | [CERTIFICATE](#) (September 2022).
- Machine Learning Data lifecycle in Production (DeepLearning.AI) | [CERTIFICATE](#) (September 2022).
- Machine Learning Modelling Pipelines in Production (DeepLearning.AI) | [CERTIFICATE](#) (September 2022).
- Deploying Machine Learning Models in Production (DeepLearning.AI) | [CERTIFICATE](#) (September 2022).
- Deep Learning Specialization (DeepLearning.AI) | [CERTIFICATE](#) (September 2022).
- Neural Networks and Deep Learning (DeepLearning.AI) | [CERTIFICATE](#) (September 2022).
- Improving DNN: Hyperparameter Tuning, Regularization and Optimization (DL.AI) | [CERTIFICATE](#) (September 2022).
- Structuring Machine Learning Projects (DeepLearning.AI) | [CERTIFICATE](#) (September 2022).
- Convolutional Neural Network (DeepLearning.AI) | [CERTIFICATE](#) (September 2022).
- Sequence Models (DeepLearning.AI) | [CERTIFICATE](#) (September 2022).
- Machine Learning Specialization (DeepLearning.AI) | [CERTIFICATE](#) (July 2022).
- Supervised Machine Learning: Regression and Classification (Stanford) | [CERTIFICATE](#) (July 2022).
- Unsupervised Learning, Recommenders, Reinforcement Learning (Stanford) | [CERTIFICATE](#) (July 2022).
- Advanced Learning Algorithms (Stanford) | [CERTIFICATE](#) (July 2022).

HONOURS AND AWARDS

- **Vice Chancellor Merit Award:** First Class Graduate of Federal university of technology, Akure (November 2024).
- **HOD Merit Award:** Best Graduating Student of the Department of Computer Engineering (November 2024).
- **Class of Aurelius SEET Award:** The School of Engineering and Engineering Technology (SEET) Aurelius Set Award of Academic Excellence for Being a Top Student in the Department of Computer Engineering (March 2024).
- **Chronicles SDC Staff of the Month:** Award for Commitment to Excellence at Work and Positive Impact (February 2023).
- **NACES Merit Award:** National Association of Computer Engineering Students (NACES) FUTA Chapter Award of Academic Excellence for Highest CGPA in 400L (2021).
- **Dean/Scholars List Award:** Dean Merit List Award for Being on the Dean's List for Nine Semesters (2018-2024).

TEST SCORE	International English Language Testing System (IELTS)	(November 2023).
<ul style="list-style-type: none">• Test Report Form Number: 23NG037884ODUO1500A• Overall Band Score: 7.5• CEFR Level: C1		

PROFESSIONAL MEMBERSHIP/AFFILIATIONS

- **Data Science Nigeria:** [Membership ID DSN/AIPlus/2020/27651](#) (2023 – Present).
- **Nigerian Universities Engineering Students Association** (February 2018 – March 2024).
- **National Association of Computer Engineering Students** (February 2018 – March 2024).
- **Black in math Association:** [Membership ID BM77](#) (January 2023 – December 2023).

INTEREST AND EXTRACURRICULAR

Travelling, Observation and Research, Music, Sport, Reading, Leadership and Entrepreneurship Workshops.

REFERENCES: Available on Request