

MUTIAT OLANREWaju

Mobile: +234 8064589686 | Email: mutiaholanrewaju05@gmail.com

GitHub: [mutiaholanrewaju \(github.com\)](https://github.com/mutiaholanrewaju) | LinkedIn: <https://www.linkedin.com/in/mutiitolanrewaju/>

RESEARCH INTEREST

Artificial Intelligence
Data Science and Machine Learning
Cloud Computing
Software development

EDUCATION

- MSc** University of Ibadan, Nigeria, Computer Science August 2023
Thesis: Development of a surface pipeline crack detection system using computer vision techniques
Advisor: Dr. Nancy Woods
- BSc** Federal University of Technology, Minna, Niger, Nigeria, Computer Engineering October 2018
Second class upper division
Thesis: Development of Bluetooth Enabled Switching Device for Handoff Selection in Multiple Operators Enabled SIM Card System
Advisor: Professor Abiodun Musa Aibinu

RESEARCH EXPERIENCE

- Graduate Student**
University of Ibadan, Oyo 2022- Present
Development of Development of a surface pipeline crack detection system using computer vision techniques
Supervisor: Dr. Woods
- Developed deep learning models using ResNet50 and AlexNet
 - Evaluated VGG, MobileNet and DenseNet performance on dataset
 - Participated in data collection, analysis and management
 - Conducted literature reviews
 - Performed research planning and knowledge translation activities
- Research Assistant**
Fadowily Research Group, Ibadan 2021-2022
Advisor Name: Professor Onifade
- Developed CNN model for customer churn predictions
 - Performed sentiment analysis on social media dataset
 - Created students' database with postgresql
- Research Assistant**
Advanced Engineering and Innovation Research Group, Minna 2017-2021
Advisor Name: Professor Aibinu
- Implemented Artificial Neural Network for Churn Prediction.
 - Developed Seamlessly Switching Network Device using RSS parameters.
 - Partook in the development of a GSM Communication Based walking Cane for Enhancing Ambulation.

PUBLICATIONS

- M. Olanrewaju, J. D Akinyemi, N.C. Woods, A. M. Aibinu "Crack Detection in Surface Pipeline Images Using Deep Learning" (Submitted for publication)
- M. Olanrewaju, A. M. Aibinu, S. Adakole and A. O. Azeez, "Development of Bluetooth Enabled Switching Device for Handoff Selection in Multiple Operators Enabled SIM Card System," 2022 IEEE Nigeria 4th International Conference on Disruptive Technologies for Sustainable Development (NIGERCON), 2022, pp. 1-5 **June 2022**

TEACHING EXPERIENCE

Cecure Intelligence Limited (CIL) Academy
Instructor, Amazon Web Service (AWS) Re/start Program
Courses – Programming and Cloud computing

August 2022-Present

University of Ibadan, Oyo
Tutor, Computer Science
Tutorial on Artificial Intelligence, Software Project Management and Introduction to Databases

March 2020- July 2022

Ibadullah Islamic Schools
Tutor, Senior Secondary Classes
• Taught Computer Studies and Vocational Studies

May 2019- February 2020

PROFESSIONAL CERTIFICATIONS

• Data Analytics Speciality	April 2024
• Solution Architect Associate – AWS	April 2023
• Amazon Web Service Cloud Practitioner - AWS	September 2022
• Azure Artificial Intelligence Fundamentals – Microsoft Certified	March 2021
• Azure Fundamentals – Microsoft Certified	December 2020
• Big Data General Level - International Institute of Online Education, UNESCO -ICHEI	November 2020

PROFESSIONAL EXPERIENCE

Data Engineer – Cecure Intelligence Limited <ul style="list-style-type: none">Designed, built, and maintained data pipelines.Used python programming to automate ETL processes.Leveraged serverless architecture to build secure and scalable solutions.Integrated Machine learning models and performed data analytics to derive insights.	August 2022 – To date.
Data Scientist – Ustacky/StackJunior <ul style="list-style-type: none">Reviewed Students' Assessments and ProjectsDeveloped course materials and videos for kids/teens coding class.Worked on relational databases using pandas and python.Visualized and Manipulated data using Open-source libraries to generate insights.	November 2020 – August 2022.
Software Developer – Women Techsters <ul style="list-style-type: none">Worked on eRecycle web application for plastic detection.Developed web-based to-do list application with html.Designed a Covid-19 monitoring App using JavaScript, html and CSS.	March 2021 – March 2022

PROJECTS

- Developed a CNN model for pipeline monitoring system using computer vision techniques.
- Developed instructional materials and educational videos on Programming for teenagers.
- Performed Analysis on Nigeria COVID-19 data using Python.
- Analysed supermarket data of a company across the country using pandas and python.

LEADERSHIP, VOLUNTEERING & AWARDS

- Selected as one of the participants in 5 countries for a fellowship at Women Techsters, 2021 based on learning commitment.
 - Received Google Scholarship to learn Data Analytics at an online professional development program through Coursera based on technological potential and commitment to learning.
-