

# MANENIMABASI MARTIN UDOH

5 Ima-Abasi St, Mbierebe Obio. • Akwa Ibom, Nigeria

[My Portfolio](#) • [Github Profile](#) • [My Email Address](#) • [LinkedIn Profile](#)

## EDUCATION

**B.Sc.** Industrial Chemistry – Materials and Polymer

**September 2017 - November 2021**

Covenant University, Ogun State, Nigeria

**Specialization:** Materials and Polymers

**Relevant Coursework:** Statistics I; Statistics II, Calculus, Computer Programming I, Mathematics for Material Scientists.

**Grade:** 2:1

## SELECTED EXPERIENCES

### Deep Learning for Multiclass Traffic Sign Recognition using the German Traffic Sign Recognition Benchmark Dataset

[\(View Project\)](#)

- Implemented a multiclassifier model using deep learning techniques to classify diverse traffic signs with an accuracy of over 83%.
- Developed and fine-tuned a convolutional neural network (CNN) based on the LeNet architecture, incorporating convolutional layers, pooling, and fully connected layers for robust feature extraction and classification.
- Utilized TensorFlow and Amazon SageMaker for model training and deployment, ensuring scalability and performance.
- Demonstrated the model's effectiveness in real-world scenarios, showcasing the potential for deep learning in enhancing road safety and autonomous driving.

### Predicting Retail Store Sales with XGBoost

[\(View Project\)](#)

- As part of my study and passion for applying machine learning techniques to real-world scenarios, I undertook a significant project focused on "Predicting Retail Store Sales with XGBoost."
- Conducted extensive data analysis, including exploratory data analysis (EDA) and regression analysis, to identify key drivers and relationships affecting retail sales.
- Achieved model precision with low Root Mean Squared Error (RMSE), Mean Squared Error (MSE), and Mean Absolute Error (MAE), highlighting the effectiveness of XGBoost in enhancing retail operations and decision-making.

## RELEVANT INDUSTRY EXPERIENCE

### Technical Team Lead

November 2021 – November 2022

Tektransform ([View project Site](#))

- Spearheaded the creation of an edtech product, Sceem-ai – an AI-powered learning platform designed to teach digital skills through adaptive content delivery and a personalized learning approach.
- Led a multidisciplinary team of Designers and Data Analysts, orchestrating the development of Sceem-ai from concept to realization, enhancing user engagement and skill acquisition.
- Distinguished among the top 15 globally in the Global Changemaker Program, outshining over 570 applicants from 87 countries.

### Software Developer

March 2023 – September 2023

SixthIdeas

- Designed and developed robust APIs using NestJS, AWS, and Serverless Framework to create scalable and performant back-end solutions.
- Spearheaded the design and implementation of a secure and efficient payment transaction infrastructure, ensuring seamless financial transactions.
- Monitored application performance and executed regular testing to maintain a reliable and scalable
- Strengthened application security and performance by effectively leveraging and configuring AWS services, contributing to a resilient and secure environment.

## TEACHING EXPERIENCE

### Teaching Assistant

November 2021 – October 2022

Ise Comprehensive High School. Ekiti State, Nigeria

- Taught Basic Technology in three classes, in line with the course requirements outlined by the department.
- Assigned and evaluated all coursework, submitted grades, and maintain a cordial relationship with the students.
- Ensured all students are well prepared for state exams and meet school and state goals for student competency.
- I Mentored and provided support to students in need.

### Technical Skills

*Programming Languages:* Python, JavaScript, Unix Shell Scripting(bash)

*Operating Systems:* Linux, Windows

## CERTIFICATES

### ALX-T Cloud Developer

March 2020

Udacity

([View Certificate](#))