

Adewale Samson Adeagbo

Data Scientist · Machine Learning Engineer · AI-Augmented Solutions Developer

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EDTECH BUILDER

DATATECH BUILDER

FAITHTECH BUILDER

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PROFESSIONAL PROFILE

AI-Augmented Solutions Developer and Data Scientist with a portfolio of 34 deployed projects and a professional foundation built across 15+ years in Nigerian secondary school classrooms. I operate across three builder identities: **EdTech Builder** (16 EdTech projects — full CBT exam system, 11 LMS platforms, school admin tools), **DataTech Builder** (7 end-to-end ML pipelines across 7 industries, 11 interactive data tool simulators), and **FaithTech Builder** (gospel-driven digital tools under HMG Gospel).

My teaching background is my professional edge — I explain complex models clearly, translate technical outputs into decisions stakeholders can act on, and build solutions that work for real people in real conditions. Currently active in three simultaneous advanced programmes while still teaching weekly.

DEPLOYED PROJECTS — 34 LIVE PROJECTS

CBT Pro — Free Nigerian School Exam Platform (Flagship EdTech)

● LIVE

HMG Technologies / HMG Academy · cbtssystem-hmgacademy.vercel.app

- ▶ Full-stack CBT platform built on **Android tablet with #0 budget** — no laptop, no web dev background, zero cost to schools
- ▶ 7-column CSV upload, timed exams, per-student question randomisation, anti-cheat tab detection, auto-marking, result certificates with WhatsApp share, 4-tab teacher analytics dashboard
- ▶ Stack: **HTML5 · CSS3 · Vanilla JavaScript · Supabase (PostgreSQL + Auth + Row-Level Security) · Vercel**
- ▶ Ecosystem: CBT Question Bank Manager · Student Study Plan Generator · SchoolDocForge · TimetableCraft

TruthLens — Fake News Detector (NLP · 3MTT Capstone 2)

● LIVE

cssadewale-fake-news-detector.streamlit.app · github.com/cssadewale/fake-news-detector

- ▶ Full NLP pipeline: text cleaning → tokenisation → lemmatisation → TF-IDF (20,000 features) + VADER sentiment → XGBoost
- ▶ 12,999 real news articles · **AUC 0.9393 · Accuracy 86.75%** — highest AUC in portfolio · Formally assessed 3MTT Capstone Project

AUC 0.9393

Acc 86.75%

12,999 articles

XGBoost + TF-IDF

NeuroWell — Employee Burnout Rate Predictor (Regression)

● LIVE

cssadewale-burnout-prediction.streamlit.app · [GitHub](https://github.com)

- ▶ Gradient Boosting · 108 GridSearchCV configurations · 22,750 employee records · joblib model serialisation
- ▶ **R² 0.855 · RMSE 0.072 · MAE 0.053** · Mental fatigue (r=0.878) accounts for 85.9% of model importance

R² 0.855

RMSE 0.072

22,750 records

Additional ML Models — All Live on Streamlit

● LIVE

- ▶ **Bank Customer Churn** (Binary Classification) — Gradient Boosting · 10,000 records · **F1 0.609 · AUC 0.868** · [Live ↗](#)
- ▶ **Insurance Claim Prediction** — Random Forest + SMOTE + SHAP + FastAPI · 7,014 records · CV F1 ~0.79 · 6 business recommendations · [Live ↗](#)
- ▶ **Algorithmic Staff Promotion — Yakub Trading Group** (HR Analytics) — Random Forest + SHAP · 38,312 records · **AUC 0.891** · SHAP fairness analysis · [Live ↗](#)
- ▶ **Income Level Prediction** (Financial Inclusion) — 5-model comparison + SMOTE · 48,842 UCI Census records · [Live ↗](#)

- ▶ **SwiftChain Delivery Delay** (Logistics · Multi-class) — 15,549 records · 41 variables · Transparently documents data leakage discovery and fix · [Live](#) ↗

HMG Academy LMS (11 Platforms) & Data Tool Simulators (11 Tools)

● ALL LIVE

- ▶ **LMS Platforms:** SQL Learn · Streamlit Learn · Excel Learn · Data Science Learn · Data Analysis Learn · PyDataFlow · VizLearn · ML Lab · Junior Class · Senior Class · QueryPilot — all at hmgacademy subdomain on Vercel
- ▶ **Simulators:** MS Excel · PgAdmin · MS SQL Server · MySQL Workbench · VS Code · Azure Data Studio · DuckDB · Power BI · Tableau · Azure · ChatLens (@hmgtechnologies) — browser-based, zero installation

PROFESSIONAL EXPERIENCE

Visioner / Director & Data Lead · HMG Concepts (His Marvellous Grace Educational Consult)

2015 - Present

Lagos, Nigeria · [cssadewale.pages.dev](#) · [hmgconcepts.pages.dev](#)

- ▶ Founded and direct a four-subsidary organisation: HMG Academy (virtual school), HMG Technologies (DataTech tools), HMG Gospel (FaithTech), HMG Media (content)
- ▶ Apply data-driven methods to track student performance; manage WAEC/NECO/GCE/UTME registration — **100% data accuracy record**
- ▶ Built and deployed CBT Pro — production-grade exam platform used by real students at zero cost to schools

Mathematics & Further Mathematics Tutor

2023 - Present

God of Seed Academy · Ogun State, Nigeria

- ▶ Apply data-informed teaching to identify knowledge gaps and improve WAEC/NECO pass rates (SS1-SS3)

Freelance Mathematics & Science Tutor

2022 - Present

Tutera · Prepclass · Gate Academy · Remote & Onsite

- ▶ Personalised data-driven lesson plans for IGCSE, WAEC, NECO, UTME, and BECE examination preparation across Nigeria and internationally

Science & Mathematics Teacher

2019 - 2022

Fredaks Group of Schools · Lagos, Nigeria

- ▶ Taught Mathematics, Further Mathematics, Physics, Chemistry, and Computer Science across JSS1-SSS3; Student Counsellor

Head Teacher / Principal & Administrator

2015 - 2019

High Favour School · Ogun State, Nigeria

- ▶ Led all academic and administrative staff as Principal; taught Science and Computer Studies; managed student welfare and examination registration

EDUCATION

B.Sc.(Ed) in Computer Science Education

Graduated 2023

Lagos State University (LASU), Nigeria · Returned to university as an adult to build the technical foundation to solve classroom problems with technology.

3MTT Data Science Programme — The Technical Turning Point

Certified December 2025

Federal Government of Nigeria (3 Million Technical Talent) · Capstone 2: TruthLens Fake News Detector (AUC 0.9393)

CORE ML & DATA SCIENCE

Python

Pandas

NumPy

Scikit-learn

XGBoost

SHAP

SMOTE

GridSearchCV

TF-IDF

NLTK

FastAPI

joblib

Streamlit

Matplotlib

Seaborn

Hugging Face

DATA ANALYSIS & BI

SQL

Power BI

Tableau

Excel (Advanced)

Google Sheets

PgAdmin

MySQL

MS SQL Server

DuckDB

Azure Data Studio

DEPLOYMENT & DEV

Git & GitHub

Vercel

Cloudflare Pages

GitHub Pages

Supabase + RLS

HTML5/CSS3/JS

Prompt Engineering

ACTIVE PROGRAMMES ▯

DeepTech_Ready — DSML Track, Cohort 3

DSN × 3MTT × Google.org

▯ Currently Active · 2026

Applied Data Science Lab

WorldQuant University

▯ Ongoing

ML Core Track — Cohort 6

Kodecamp

▯ Ongoing

SkillsBuild Hub Ambassador — Cohort 4

IBM SkillsBuild

Apr-Jun 2026

Elevate AI Developers — AI-900

DSN × Microsoft

2026

KEY CERTIFICATIONS

Data Science Programme

3MTT Nigeria

December 2025

Python Data Fundamentals

+ 7 courses

DataCamp

2024-2025

Generative AI in Data

Analysis

Open Visualization Academy

2025

AI Fluency Track

Digital Skills Nigeria / Microsoft

2025

Data Analysis Certification

Digital Skillup Africa

Nov 2025

AI Fundamentals & Copilot

Suite

Microsoft / LinkedIn Learning

2024

B.Sc.(Ed) Computer Science

Education

Lagos State University

2023

OPEN TO

Remote Data Science Roles

ML Engineer Roles

Data Analyst Roles

EdTech Collaborations

ML Consulting

FaithTech Projects

AI Solutions Dev

LANGUAGES & INTERESTS

Languages: English

(Professional) · Yoruba (Native)

Interests: Piano & Guitar · Data

Research · Social Edutainment ·

Reading · Faith & Evangelism

REFERENCES

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Proprietress, High Favour

School

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Additional refs on request.