

MICHAEL TUNWASHE

Junior ML Engineer & Python Data Engineer

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Professional Summary

Junior Machine Learning & Data Engineering practitioner with strong Python skills and hands-on experience building end-to-end data and analytics projects. Skilled in Pandas, PyTorch, SQL, and API development, with growing experience in ETL workflows, deployment, and financial data analysis. Currently pursuing a B.Sc. in Mathematics, developing deep technical foundations in ML, data processing, and applied statistics. Interested in ML Engineering, Data Engineering, and building towards Finance and Quant capabilities.

Technical Skills

Core Skills: Python (Pandas, NumPy, scikit-learn, PyTorch), Data Engineering (ETL pipelines, data cleaning, API integration), Machine Learning (classical ML, text classification, model evaluation), Backend Development (FastAPI, REST APIs), SQL (PostgreSQL, MySQL), Data Visualization (Plotly, Dash), Tools (Docker, Git/GitHub)

Learning / Developing: React & TypeScript, Supabase, CI/CD basics, financial modeling basics

Projects

Financial News Classifier

Sep 2025 – Nov 2025

ML Text Classification Project

- Built financial news sentiment classifier using PyTorch and scikit-learn achieving 93% accuracy on test data
- Developed FastAPI endpoint for interactive model predictions
- Containerized application with Docker for portable deployment
- Designed web UI to visualize inputs, predictions, and confidence scores

Mousiki Mini

Nov 2025 – Present

Simplified Music Recommendation System

- Developed hybrid recommendation system combining Content-Based Filtering and Neural Collaborative Filtering
- Built local-first application running entirely on machine with local model weights and data
- Created CLI interface using Typer for interactive validation and recommendation generation
- Implemented reproducible single-script setup with automated environment configuration
- Designed user history override and customizable recommendation parameters

Brazilian Retail Intelligence System (BRIS)

Sep 2025 – Nov 2025

Data Engineering & BI System

- Created ETL workflows using SQLAlchemy to process retail transaction data
- Designed FastAPI service for retrieving processed metrics
- Built OrderGen, a rule-based synthetic order generator with Markov-Chain-style sampling for review simulation
- Developed React and TypeScript dashboard to visualize revenue trends and logistics KPIs
- Used Docker for local service orchestration

Naija Economic Dashboard

Feb 2025

Economic Data Visualization Project

- Built interactive dashboard using Dash to track Nigerian financial indicators
- Integrated Central Bank of Nigeria APIs for inflation, FX rates, and GDP statistics
- Implemented caching to reduce API calls and improve load times
- Designed responsive charts for non-technical users

Professional Experience

Data Analyst Intern

Aug 2025 – Nov 2025

HNG Tech

- Cleaned and transformed large business datasets using Python and SQL
- Wrote SQL queries for recurring reporting tasks
- Built dashboards in Metabase to support business insights
- Assisted team with lightweight automation pipelines

Education

B.Sc. Mathematics

2024 – 2028

University of Lagos

- Relevant Coursework: Probability, Statistics, Linear Algebra, Calculus