Ajila Oluwatosin

Data Scientist | Machine Learning Engineer

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PROFILE SUMMARY

Data Scientist and Machine Learning Engineer with experience delivering multiple end-to-end machine learning and data analytics projects. Skilled in Python, SQL, and machine learning frameworks, with hands-on experience building and deploying models using FastAPI, Streamlit, and Docker. Adept at translating data into actionable insights and production-ready solutions for decision-making.

EDUCATION

University of Ilorin, Ilorin, Kwara, Nigeria Oct. 2018 – Oct. 2023
Bachelor of Science (B.Eng.) in Materials and Metallurgical Engineering
Final Grade: Second Class Upper | **CGPA: 3.96/5.00**

Thesis: Investigated how particle sizes affect mechanical and wear resistant properties of composite materials - designed experiments, analyzed data, and documented findings.

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL (MS SQL Server)
- **Data Science & Machine Learning:**
  Data Cleaning, Exploratory Data Analysis, Feature Engineering, Predictive Modeling, Model Evaluation, Statistical Testing
- **Libraries & Frameworks:**
  Pandas, NumPy, Scikit-learn, XGBoost, CatBoost, SciPy, Statsmodels, Matplotlib, Seaborn
- **Deployment & MLOps Tools:**
  FastAPI, Streamlit, Docker, Hugging Face Spaces, Git, GitHub
- **Data & Reporting:**
  Data Visualization, Technical Documentation, Business Reporting, Data Storytelling
- **Core Competencies:**
  Problem Solving, Analytical Thinking, End-to-End ML Pipeline Development, Communication of Insights

FEATURED PROJECTS

Credit Card Fraud Detection System

Python | Scikit-learn | FastAPI | Streamlit | Docker

- Built an end-to-end machine learning system to detect fraudulent credit card transactions in near real-time using supervised learning techniques.
- Engineered features and trained a Random Forest classifier to optimize fraud detection performance under class imbalance conditions.
- Achieved **high precision (89.23%) with strong F1-score (83.75%)**, improving reliability in identifying fraudulent transactions while minimizing false positives.
- Deployed the model as a production-ready API using FastAPI, with an interactive Streamlit dashboard for real-time monitoring and inference.
- Containerized the system using Docker and deployed on Hugging Face Spaces for scalable and accessible usage.

BNPL Credit Risk Assessment System

Python | Scikit-learn | Streamlit | CatBoost

- Developed a machine learning-based credit risk scoring system for Buy Now, Pay Later (BNPL) transactions to support automated lending decisions.
- Implemented a CatBoost classification model to evaluate customer risk profiles using behavioral and transactional features.
- Designed a hybrid decision system that classifies applications into **approve, reject, or manual review categories**, improving decision efficiency.
- Achieved an **AUC score of 0.788**, demonstrating reliable predictive discrimination for credit risk assessment.
- Reduced reliance on manual underwriting through automated risk segmentation logic.

Marketing A/B Testing & Conversion Analysis

Python | Pandas | SciPy | Statsmodels

- Conducted A/B testing to evaluate the effectiveness of a digital marketing campaign by comparing conversion performance between control and test groups.
- Performed statistical hypothesis testing to determine the significance of observed differences in conversion rates.
- Identified a statistically significant improvement in conversion performance, validating the effectiveness of the campaign strategy.
- Generated actionable recommendations to optimize targeting, campaign design, and budget allocation for improved marketing ROI**.**

WORK EXPERIENCE

Intern Resident Engineer. (National Youth Service Corps) June. 2024 – April. 2025
Nexant Consulting Ltd. Lagos, Nigeria.

- Supervised rail construction activities ensuring compliance with engineering design specifications and regulatory standards.
- Monitored project execution and resolved technical and design-related issues to maintain construction quality and timelines.
- Collaborated with multidisciplinary engineering teams to ensure timely delivery of project milestones.
- Conducted site inspections and produced technical reports with recommendations for project improvement.
- Maintained structured documentation of inspections, design changes, and contractor compliance records.

CERTIFICATION

AI Career Essentials – ALX Africa (2024)

Data Science Bootcamp – GomyCode (2025)