OGUNDEKO OLUWASEUN EMMANUEL

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PROFESSIONAL SUMMARY

Data Scientist with hands-on experience in the complete machine learning lifecycle, from data analysis and feature engineering to model development and deployment. Proven ability to build and deploy practical web applications using Python, Scikit-learn, and Streamlit

SKILL HIGHLIGHTS

- **Languages**: Python, SQL
- **ML Concepts**: Supervised & Unsupervised Learning, Gradient Boosting, Tree Algorithms, Model Evaluation, Feature Engineering, Natural Language Processing (NLP), RAG, LLMs
- **ML & Deep Learning:** Scikit-learn, TensorFlow/Keras, Torchaudio, Transformers (Hugging Face)
- **Frameworks & Tools:** Streamlit, Flask, FAISS, Git & GitHub
- **Database Management**: PostgreSQL, SQLite
- **Data Analysis and Visualization**: MS-Excel, Pandas, NumPy, Matplotlib, Plotly, PowerBi, Seaborn.
- **Soft skills**: Communication, Team work, Problem Solving, Service Focused, Decision making.

EXPERIENCE

Data Scientist | 2023 - present
Freelance & Personal Projects

Employee Retention Prediction App:
- Engineered a full-stack web application to predict employee attrition, enabling HR to take proactive retention measures.
- Trained a classification model that achieved **97% accuracy**.
- Built an interactive Streamlit dashboard for 'what-if' analysis and an EDA module for quick insights into company demographics.

Preliminary Mental Health Assessment App
- Developed a web application to provide users with a preliminary mental health assessment based on behavioral and psychological symptoms.
- Achieved high-precision results with a **0.0037 Hamming Loss** and a **98.27% Exact Match Ratio**
- Engineered as a **multi-label classification** system, capable of predicting several potential mental health conditions simultaneously from a single assessment.

Voice Identification System
- Built a secure speaker verification system to accurately identify and authenticate users based on their unique voiceprint.
- Implemented the state-of-the-art **ECAPA-TDNN** model using the **SpeechBrain** toolkit to generate and compare highly accurate voice embedding.
- Deployed a user-friendly web application using **Streamlit** that allows for simple, real-time voice enrollment and verification.

Pregnancy Delivery Mode Prediction

- Developed a clinical decision-support tool to assist healthcare professionals by predicting the most likely mode of delivery (e.g., vaginal or cesarean).
- Trained and optimized an **Extreme Gradient Boosting Classifier (XGBClassifier)** on key clinical indicators, achieved a **92.83% F1-Score**, demonstrating a strong balance between precision and recall.
- Built an intuitive **Streamlit** interface for medical staff to input patient data and receive instant, actionable predictions to enhance prenatal care.

Intern | 2022 - 2023

Lagos State University Teaching Hospital, GRA-Ikeja, Lagos.

- **Streamlined nurse database management:** Designed and implemented new data entry forms, reducing data entry errors.
- **Enhanced communication network:** Configured and maintained CUG lines, improving team communication efficiency.
- **Bolstered server uptime:** Provided comprehensive server maintenance.
- **Championed technical troubleshooting:** Resolved diverse system issues across the organization, minimizing downtime and improving staff productivity.

EDUCATION AND CERTIFICATIONS

Yaba College of Technology:

- Higher National Diploma **(HND)**, Computer Science **(in-view)**
- Ordinary National Diploma **(OND)**, Computer Science **(2019 – 2022)**

Imperial College London (Coursera):

- Mathematics for Machine Learning: Linear Algebra (**2023**)

Cognitive class (IBM Skills Network):

- Data Analysis with Python (**2022**)
- Python for Data Science (**2023**)

NIIT (Fortesoft):

- Certificate in Programming with Python (**2022**)