**Adu, Ayomide Oluwanifesimi**

**📍**Ibadan, Nigeria **|** **📞** +234 7035728085 **| ✉️** [aduayomide5@gmail.com](mailto:aduayomide5@gmail.com)

**LinkedIn:** [**https://www.linkedin.com/in/techai-innovator**](https://www.linkedin.com/in/techai-innovator) **| GitHub:** [**https://www.github.com/TechAI-Innovator**](https://www.github.com/TechAI-Innovator)

# Professional Summary

AI/ML Engineer with hands-on experience in Python, data analytics, machine learning, and deep learning. Proficient in building AI-driven solutions, including NLP-based applications, computer vision models, and AI-powered automation. Strong foundation in data analysis, model training, and web integration using Flask. Passionate about leveraging AI to solve real-world problems and continuously advancing in the field.

# Education

**Federal University of Technology, Akure (FUTA)**

* M.Eng. in Civil Engineering (Awaiting result)
* B.Eng. in Civil Engineering (2016-2021)

**Robotics and Artificial Intelligence Nigeria (RAIN), Ibadan**

Artificial Intelligence & Deep Learning Trainee (June 2024 – Feb 2025)

* Developed expertise in supervised and unsupervised learning, recommenders’ systems, NLP, deep learning, and model deployment.
* Hands-on projects applying data science techniques to real-world problems.

# Technical Skills

* **Programming:** Python
* **Data Analytics & Visualization:** Tableau, Matplotlib, Seaborn, pandas
* **Machine Learning:** Scikit-learn (Supervised & Unsupervised Learning)
* **Database Management:** MySQL, PostgreSQL, SQLite
* **Deep Learning:** TensorFlow, Keras, NLTK, Hugging Face, Langchain, Grok (Computer Vision, NLP, LLM, GANs)
* **Web Frameworks:** Flask, HTML, CSS, JavaScript
* **Version Control:** Git
* **Cloud & Deployment:** Python anywhere, vercel, basic knowledge of AWS

# Professional Projects

**Applied Machine Learning Projects**

* Tools: Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn
* Worked on real-world datasets including **Stroke Prediction**, **Titanic Survival**, **Liver & Heart Disease Diagnosis**, **Loan Approval**, **USA Housing Prices**, and **Diamond Pricing**.

Key tasks and techniques included:

* **Data Preprocessing**: Handling missing values, outliers, and class imbalance; encoding categorical variables.
* **Feature Engineering & Selection**: Identified relevant features using different methods.
* **Model Building**: Applied logistic regression, decision trees, random forest, XGBoost, and support vector machines.
* **Model Evaluation**: Used cross-validation and performance metrics such as accuracy, precision, recall, F1-score, and ROC-AUC.
* **Hyperparameter Tuning**: Employed GridSearchCV and RandomizedSearchCV for optimization.
* **Workflow Automation**: Built end-to-end machine learning pipelines using Pipeline, FeatureUnion, and ColumnTransformer.

**LLM-Driven Web Applications: Job Recommendation System & Smart School Platform**  
*Technologies: Python Flask, HTML/CSS, JavaScript, MySQL, LangChain, Hugging Face, Groq*

* Built two full-stack web platforms leveraging Large Language Models (LLMs) to enhance user interaction and automation
* Developed an LLM-powered job recommendation system that parses uploaded CVs to auto-fill user profiles and suggest personalized jobs using contextual prompt engineering
* Integrated LinkedIn job scraping and filtering to feed real-time job data into the recommendation engine, with editable CV fields synced to a backend database
* Designed a voice-enabled school management system where LLMs interpret spoken commands to navigate dashboards and automate report generation via speech input
* Implemented dynamic role-based dashboards for staff/students, secure authentication, and real-time result filtering with downloadable reports
* Delivered responsive, mobile-friendly UIs for both platforms with intuitive layouts and dynamic content updates

**Sales & Business Insights Projects (SQL, Python, Tableau)**

* Analyzed sales datasets to extract actionable business insights using SQL, Python, and EDA techniques.
* Identified revenue trends, customer behaviors, and product associations (using Apriori algorithm).
* Designed and presented interactive Tableau dashboards to visualize sales, profit trends, and customer demographics.
* Applied business intelligence techniques to support data-driven decision-making.

**AI Content Detection Platform**

* Developed a web-based app to detect AI-generated text.
* Utilized language model prompts and keyword analysis techniques.
* Deployed using Vercel; performed well under manual testing.

# Soft Skills

* Fluent in English (written & spoken)
* Fast learner, adaptable, and eager to contribute
* Ability to work independently and under supervision
* Problem-solving & analytical thinking
* Effective communication and teamwork
* Time management & multitasking

# References

Available on request.