OLUWUYI OLUMIDE ISMAIL

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SUMMARY

Data Analyst & ML Engineer with 1+ years' experience in data analysis, visualization, and model deployment. Delivered measurable business impact by reducing reporting time, improving prediction accuracy, and automating workflows. Skilled in Python, SQL, TensorFlow, Power BI, and FastAPI, with hands-on experience across consumer analytics, medical imaging, and financial modeling. Proven ability to transform raw data into actionable insights and deploy AI-driven solutions in production environments.

SKILLS

Programming: Python, JavaScript, SQL (PostgreSQL), HTML/CSS, Java

Data & ML: Pandas, NumPy, TensorFlow, scikit-learn, Machine Learning, Data Analysis, Feature Engineering, Model Evaluation (F1, AUC, Precision, Recall), Hypothesis Testing, Regression

Data Visualization & Reporting: Excel, Power BI, Plotly, Interactive Dashboards

Web & Backend Development: React.js, PHP, Streamlit, FastAPI, API Design, OAuth2/JWT Authentication

Cloud / MLOps: Git, Vercel, Render, ETL/ELT

Tools & Databases: Firebase, Postman, Database Design, SQL Window Functions / CTEs

Soft Skills: Collaboration, Problem Solving, Effective Communication, Time Management

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PROJECT

Treklyio – AI Travel Itinerary Planner *(Personal Project, Jun 2025 – Present)*
Tech Stack**:** Python, FastAPI, React, SerpAPI, Gemini, Agno
- Built an AI-powered travel planner generating itineraries in <1 minute, reducing manual planning time by ~80%.
- Integrated SerpAPI (flights) and Google Places API (hotels/restaurants**)**, cutting research effort by hours and surfacing cost-effective options instantly.
- Automated workflows with Gemini-powered Agno AI agents, reducing user effort by ~60% and improving overall planning efficiency.

Active Wears – Sales Performance Dashboard (Personal Project, Aug 2025)
Tech Stack**:** Power BI, Power Query, DAX | Link
- Analyzed 2022 KPIs within a 2021–2024 dataset: revenue $231.39K (+15.4% YoY), profit $69.36K (+14.7%), customers 1.60K (+20.3%), orders 4.73K (+14.7%).
- Modeled 6K+ records with Power Query, saving ~3 hours per dataset and improving KPI accuracy by ~25%.
- Built an interactive Power BI dashboard segmented by region, channel, product, and state, cutting reporting time from days to minutes.
- Ranked sales channels (2022)**,** with Marketplaces capturing 26.58% of customers, ahead of Retail, Online, and Pop-ups.
- Tracked state-level distribution, with Rhode Island leading (42 customers) and North Carolina lagging (21).

Bank Customer Attrition Prediction *(Personal Project, Jun 2025)*
Tech Stack**:** Python, XGBoost, scikit-learn, Plotly, Streamlit | Link
- Built an XGBoost model on 5k customer records (0.89 F1, 0.85 AUC), identifying high-risk customers for proactive retention.
- Performed feature engineering (demographics, transactions, account activity), improving model stability and reducing prediction bias by ~15%.
- Deployed a real-time attrition dashboard with Plotly and Streamlit, saving 3+ hours per dataset and reducing decision latency by ~50%.

Respirix – Lung Cancer Detection Web App *(Thesis Project, Jan 2024 – May 2025)*
Tech Stack**:** TensorFlow, Python, FastAPI, React, MySQL, JWT | Link
- Trained a TensorFlow CNN model on ~1k CT scans; achieved validated performance (0.89 ROC AUC, 0.92 F1) and reduced misdiagnosis risk by ~40%.
- Built a secure FastAPI + React web app that classifies cancer types in <1 minute, reducing diagnostic delays.
- Developed preprocessing pipelines to enhance CT scan quality and ensure consistent model inputs, improving detection reliability.
- Automated image upload and deletion post-inference, cutting storage use by 40% and improving compliance.
- Strengthened data security with JWT and SHA-hashed login, preventing unauthorized access.

EXPERIENCE

Data Science Intern

National Center for Artificial Intelligence and Robotics   Jan 2024 – Jun 2024, Abuja, Nigeria

- Led EDA and data cleaning on housing and flight datasets (Python, Pandas); improved data quality by 25% and boosted downstream ML accuracy by ~15% through outlier handling and class rebalancing.
- Led the development of a prototype AI attendance system using the face_recognition (Python, OpenCV) library; reduced manual tracking by 90% and improved verification reliability.
- Prototyped a smart parking solution with Arduino + sensor fusion; cut detection errors by 35% via threshold-based collision alerts.

Frontend Intern

Bizmarrow Technologies   Jun 2023 – Aug 2023, Abuja, Nigeria

- Developed and maintained responsive web interfaces with HTML, CSS, and JavaScript, reducing page load issues by 30% and improving user experience across devices.
- Debugged cross-browser and mobile rendering issues; cut UI errors by 40% and ensured consistent performance across platforms.
- Engineered interactive web features with React.js, HTML, CSS, and JavaScript; reduced development time for new functionality by 30% and boosted client engagement through seamless integration.

EDUCATION

B.Sc. Software Engineering (First Class Honors, CGPA 4.71/5.00)

Babcock University • Ogun State, Nigeria | Jan 2021 – Jul 2025

- Relevant Coursework: Data Structures and Algorithms, Big Data Engineering, Artificial Intelligence & Applications, Database Systems.

CERTIFICATIONS

- **Stanford Online – Machine Learning (2023)** | Link
- **IBM – Data Science Professional Certificate (2023)**| Link
- **DataCamp – Intermediate Python (2024)**| Link

INVOLVEMENT

Resource Manager

Babcock University • Google Developers Group, Babcock • Sep 2024 – May 2025

- Streamlined workflow processes by organizing and centralizing resources, reducing task duplication by 25% and improving team productivity in meeting operational objectives.