ISRAEL AIYEGBENI

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PROFESSIONAL SUMMARY

Results-driven Data Science and Machine Learning Enthusiast with a strong foundation in engineering principles and problem-solving. Experienced in leveraging data-driven approaches to optimize processes, develop predictive models, and enhance decision-making. Passionate about technology, sustainability, and engineering solutions that drive efficiency and environmental conservation. Eager to learn and contribute to innovative projects within a dynamic and technology-driven environment.

EDUCATION

- **B.Sc. Agricultural and Environmental Engineering (2018 – 2024)**
University of Ibadan, Nigeria.
CGPA 3.38/4.00, Second Class Honors (Upper Division), Rank 2/34 in department.

- Dean's List (2022-2024), Top Year Three Student (2023), Award of Merit (2024).
- Winner, NIMECHE design hackathon for solving sustainability problems in Africa using 3D modelling and AR technology, sponsored by Ludenso (2020).

- **Cloud Computing Track (2025)**
Techcrush Academy Bootcamp
- 92.8/100, Rank 1
- Best graduating student

CERTIFICATIONS & SIMULATIONS

- AI/ML Certifications (DeepLearning.AI and 3MTT)
- Microsoft AI-900 Certification
- Data Analytics (Cisco Netcad)
- Python Core Certification (Sololearn)
- Data Visualization (Foresight Bi)
- **Deloitte Australia Data Analytics Simulation – Forage | Feb 2025**
    - Completed a forensic data analytics simulation involving classification and investigation tasks.
    - Built an interactive dashboard using Tableau and performed business analysis using Excel.
- **British Airways Virtual Internship – Forage | Mar 2025**
    - Applied web scraping on unstructured datasets to extract business insights.
    - Conducted sentiment analysis on customer reviews and built a classification model to predict buying behavior.
- **Commonwealth Bank Data Science Simulation – Forage | Mar 2025**
    - Designed data pipelines and implemented data anonymization techniques to protect personal data.
    - Proposed analytical strategies for social media data and developed well-structured relational databases.
- **Tata Data Visualization Simulation – Forage | Apr 2025**
    - Created compelling data visualizations for business reporting and decision-making.
    - Prepared analytical questions for a simulated client meeting with senior leadership.
- **Boston Consulting Group (BCG) Data Science Simulation – Forage | Apr 2025**
    - Conducted customer churn analysis using Python (Pandas, NumPy) and visualized trends.
    - Engineered a Random Forest model with 85% accuracy; delivered a strategic report with actionable insights.

TECHNICAL SKILLS

- Programming & Data Science: Python, MATLAB, SQL, Machine Learning, Bash.
- Software & Tools: Microsoft Office (Excel, Word, PowerPoint), Git, Tableau, Power BI, Azure, Docker.
- Soft Skills: Effective Communication, Critical Thinking, Problem-Solving, Teamwork.

EXPERIENCE

- **Pricepally (2025)**

Intern – Data Analyst/Scientist

- Collect, clean, and preprocess data from multiple sources.
- Analyze large datasets to identify trends, correlations, and insights.
- Develop reports, dashboards, and visualizations using tools like Metabase and Excel.
- Use statistical methods and machine learning techniques to support data-driven decisions and conduct customer churn analysis.
- Monitor and track key performance indicators (KPIs) to evaluate business performance.
- Query and manage databases using SQL, and Python for efficient data retrieval.
- Collaborate with stakeholders to understand business needs and translate data into solutions.

- **INTERNATIONAL INSTITUTE OF TROPICAL AGRICULTURE (IITA), IBADAN**

Intern – Mechanization Unit (2023)
- Assisted in optimizing cassava processing techniques, leveraging data analysis to identify inefficiencies and improve workflow.
- Operated processing machines and conducted quality control checks to ensure industry standards.
- Collected, processed, and analyzed production data to detect trends, monitor yield variations, and recommend improvements for reducing waste and increasing efficiency.
- Developed data-driven insights on machine performance, leading to a 10% increase in processing efficiency.

PROJECTS & RESEARCH

- **Machine Learning for Water Resource Management (2024)**: Developed predictive models to estimate water loss rates in the Ogun-Osun region, addressing water scarcity challenges. Research published and presented at the NIAE International Conference.
- **Static website deployment on Azure using Github actions**: Portfolio site hosted with NGINX on Azure VM, automated via GitHub Actions & Bash scripting.
- **Intelligent traffic monitoring and analysis system**: An Intelligent traffic monitoring and analysis system built using computer vision and machine learning techniques.
- **Real-time fraud detection system**: A real-time fraud detection pipeline powered by FastAPI, Kafka, and Machine Learning, containerized with Docker, and monitored using Prometheus and Grafana.
- **Media Upload Web App with Django**: Developed a web application using Django that allows users to upload multimedia content with integrated database storage for backend management.
- **NYC Taxi Data Analysis Pipeline** – Scalable PySpark pipeline for cleaning, processing, and analyzing New York City taxi datasets
- **Interactive E-commerce Sales Dashboard:** Created a dynamic Power BI dashboard for an e-commerce startup to monitor sales performance by region, product category, and sales representative. Drafted a comprehensive report summarizing metrics to guide business planning and decision-making.
- **Undergraduate Research Assistant – Trend Analysis of Reference Evapotranspiration in the Ogun-Osun River Basin (2024-2025)**:
  - Analyzed hydrological trends in the Ogun-Osun River Basin, contributing to environmental sustainability and water resource management research.

- Conducted data collection, processing, and statistical trend analysis to identify changes in climatic and hydrological patterns over time.
- Utilized Python and Microsoft Excel for data analysis, visualization, and time series forecasting of evapotranspiration trends.
- Drafted technical reports summarizing findings and provided recommendations for improved water resource planning.

LEADERSHIP & VOLUNTEERING

- **Committee Member – AEESS Conference 2024**
  University of Ibadan, Agricultural & Environmental Engineering Students' Society (AEESS)

- Collaborated with a team to plan and execute the 2024 departmental conference
- Coordinated logistics, speaker invitations, and participant engagement
- Ensured smooth delivery of sessions and managed communication among sub-teams

- **YOUNGA 2022 Youth Delegate**
  Global Youth Leadership Initiative (by BridgingTheGap Ventures)

- Selected as a youth delegate to co-create solutions for a more inclusive and sustainable world
- Participated in cross-sector discussions with UN officials, policymakers, and global leaders
- Contributed to innovation-focused breakout sessions on education, climate action, and digital access

TEACHING & MENTORSHIP

- University of Ilorin Project Mentor (2024): Guided a student in implementing a CNN model for pneumonia diagnosis from medical images.
- University of Ibadan Project Mentor (2025): Guided a student in developing a Machine Learning model to predict RET from remote-sensing data
- University of Ibadan Project Mentor (2025): Guided a student in developing a Raspberry Pi–based machine learning model for real-time alphanumeric classification
- Department Tutor (2025) – Computer modelling of agricultural systems (TAE 525)

INTERESTS
Data Analytics, Optimization, Automation, Technological Innovation, Problem-Solving.

REFERENCES
ENGR. DR. H. A. Alabi
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Department of Agricultural and Environmental Engineering
University of Ibadan.
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