EZECHIEL KOKOU AGBAN

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Education

Bachelor of Science in Software Engineering
Université de Lomé – Ecole Polytechnique de Lomé, December 2024
Relevant Coursework: **Data Structures & Algorithms, Probability & Statistics, Database Systems, Calculus, Software Design, Operating Systems**

Relevant Work Experience

Data Scientist
Ministry of the Digital Economy and Transformation, December 2024 – Present

- As a data scientist, I dive into data to uncover hidden patterns, build predictive models, and turn complex information into clear, actionable insights. I solve problems, automate processes, and help make informed decisions to achieve meaningful results.

Software Engineer
Mitsio Motu, July 2024 – November 2024

- Developed core modules for a national startup portal, including secure user account management, access roles, and features for funding applications and resource updates.
- Collaborated with a cross-functional team to enhance UI/UX design, aligning the portal with Togo's entrepreneurial support vision.

Volunteer Content Tester
DeepLearning.AI, April 2025 – Present

- Support the global AI education community by testing and reviewing new learning content.
- Provide constructive feedback to improve the quality, clarity, and technical accuracy of AI courses and resources.

Personal & Academic Projects

Deep Learning for Image Classification
I built a CNN in PyTorch for flower species classification, achieving 93% accuracy through data augmentation and dropout to enhance generalization and prevent overfitting.

Climate Change Analysis and CO_2 Emission Prediction in Africa
I developed a Python-based machine learning model to analyze climate trends in Africa, using time-series forecasting to predict CO_2 emissions and support sustainable development insights.

Blood Bank Management System
I created a web-based blood inventory management system and a mobile app for donors to schedule donations, improving accessibility and boosting donation rates.

Skills

- **Programming Languages**: Python, Java, Javascript, C++
- **Machine Learning & AI**: scikit-learn, TensorFlow, Keras, PyTorch
- **Data Science & Analysis**: Pandas, NumPy, Matplotlib, Seaborn
- **Other Tools**: Git, SQL, Linux, NoSQL
- **Soft Skills**: Problem Solving, Team Collaboration, Analytical Thinking, Research

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Certifications

- **AI Programming with Python** – Udacity | September 2024
- **Machine Learning Specialization** – Coursera (Deeplearning.AI & Standford Online) | July 2024
- **Data Scientist Associate** – Datacamp | September 2023

Prizes and Awards

Togo Fiber Optics Uptake Prediction Challenge – June 2024
I secured 2nd place in a national machine learning competition by designing a high-accuracy predictive model using gradient boosting techniques in Python with scikit-learn, effectively analyzing structured data.

Amazon DeepRacer Student League – 1st Place, National Level | September 2024
Secured 1st place in a national-level autonomous racing competition using AWS DeepRacer, demonstrating practical skills in reinforcement learning and model optimization.

Reply Code Challenge Standard Edition – Top 10% | 2024
Ranked 139th out of 1,844 participants in an international programming challenge, showcasing strong problem solving skills and programming proficiency.

Additional Information

- **Languages**: English (fluent), French (native)
- **Interests**: AI, Robotics, Autonomous Systems