Sulaiman Waliu

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SUMMARY

Graduate student in Biometrics and Artificial Intelligence with expertise in AI, Machine Learning, and Data Science. Skilled in developing and deploying machine learning models, computer vision applications, and large language models (LLMs). Proven ability in handling real-time data and delivering AI solutions for diverse challenges in NLP, data analysis, and predictive modeling.

SKILLS

- **Programming Languages**: Python, R, JavaScript
- **Data Science**: NLP, Machine Learning, Generative AI, LLMs
- **Machine Learning Frameworks**: TensorFlow, PyTorch, scikit-learn
- **Data Analysis Tools**: Pandas, NumPy, Tableau, Power BI, Microsoft Excel
- **Database Management**: MySQL, SQLite, PostgreSQL
- **Frameworks**: Flask API, Django, REST API, Postman
- **DevOps and Tools**: Docker, Kubernetes, Jenkins, Git & GitHub, Shell/Bash Scripting
- **Computer Vision Tools**: OpenCV, face_recognition, Custom Object Detection

EXPERIENCE

MLOps Intern
Vosyn AI (Remote) *August 2024 - November 2024*
- Developed automated pipelines for machine learning models using Python, streamlining deployment processes.
- Optimized ML models for performance using TensorFlow and PyTorch, enabling efficient deployment in distributed environments.

Machine Learning Intern
Mentoreness (Remote) *April 2024 - June 2024*
- Built machine learning models, focusing on NLP tasks and data engineering workflows.
- Designed NLP models with focus on language understanding, utilizing Hugging Face Transformers and custom embeddings for tailored client solutions.

Data Science and Machine Learning Intern
Edureka Computing Institute (Remote) *Nov 2022 - April 2023*
- Led data science projects focused on natural language processing and machine learning for large datasets.
- Improved performance of data pipelines and optimized models for efficient deployment.

PROJECTS

Anomaly Detection in Time-Series Data Using LSTM
- Designed and implemented an LSTM model using Keras to detect anomalies in JPMorgan Chase stock price data (2000–2023).
- Identified and visualized anomalies by analyzing reconstruction errors and establishing threshold values.

Cloud-Based Attendance Monitoring with Facial Recognition and LLM Integration
- Developed an AI-powered cloud application incorporating facial recognition and LLMs for automated student tracking.
- Improved system efficiency by integrating real-time facial recognition and advanced language models.

ETL Pipeline for Student Attendance Data
- Designed and implemented an ETL pipeline to manage and process student attendance data from multiple formats.
- Automated data extraction, transformation, and loading into a MySQL database to ensure consistency and accuracy.
- Enhanced data handling efficiency by leveraging optimized transformation techniques for real-time updates.

Custom Object Detection Using Non-COCO Dataset Objects
- Built an object detection system optimized for non-standard datasets using TensorFlow and OpenCV.
- Fine-tuned detection models for improved accuracy on non-COCO datasets, including custom preprocessing pipelines.

EDUCATION

Master's Degree, Biometrics and Artificial Intelligence
University Paris-Est Créteil, France *Expected 2025*
Bachelor of Science in Computer Science
Kebbi State University of Science and Technology *2019*