

Lukman Kunveng

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Summary

Data scientist with a robust background in mathematics and artificial intelligence, specialising in machine learning and data-driven solutions. Proven ability to develop innovative applications that enhance user experience and improve operational efficiency. Eager to leverage expertise in AI technologies to drive impactful projects and contribute to organisational success.

Work Experience

Ayzee A.I & Technology

Software Development Consultant, Remote

J120, Rhode St. AOB District, Ghana

Nov 2024 – May 2025

- Identified, designed, and deployed AI-driven solutions that automated digital workflows across multiple client projects, enhancing operational efficiency and decision-making.
- Delivered expert level programming and software development support, including debugging, code optimization, and end-to-end implementation that improved system performance and reliability.

Sensor6ty/ai4Sense

Azure Data Scientist, Remote

Saint-Quentin, France

Jun 2023 – Jul 2024

- Engineered a high-accuracy speech-to-text system that significantly boosted transcription performance across diverse accents and noisy audio environments.
- Developed a Voice Assistant chatbot for media-player interaction using Rasa and GPT-3, improving user automation and accessibility.
- Evaluated and optimized speaker diarisation techniques for multi speaker audio, enhancing conversation segmentation and transcription quality.
- Applied advanced machine-learning techniques in Python and R to perform in-depth data analysis and visualization for research and production use cases.
- Leveraged cloud and open-source ecosystems, including Microsoft Azure, Hugging Face, and containerized ML workflows to scale and refine speech recognition pipelines.

First Atlantic Bank Ltd

Direct Sales Executive

Accra, Ghana

Jan 2019 – Dec 2020

- Expanded the customer base through strategic prospecting and relationship-building, contributing to increased deposit mobilization and product adoption.
- Assessed creditworthiness of loan applicants and delivered risk-based recommendations, supporting high-quality credit decisions and portfolio growth.

Education

African Institute for Mathematical Sciences

Master of Mathematical Sciences in Data Science

Mbour-Thies, Senegal

Oct 2022 – Jul 2024

Grade: 84/100 - Very Good Pass

Thesis: IoT and Artificial Intelligence for Secure Remote Healthcare Monitoring. **Under review**

University of Toronto Mississauga

Certificate of Effective Healthcare Management, Online

Mississauga, Canada

Sep 2023 – May 2024

Coursework: Healthcare Governance, Ethics & Culture, Healthcare Strategy & Critical Thinking Processes, Risk Management in Healthcare, Effective Leadership in Healthcare, Healthcare Finance, Reporting & Scorecards Data Analysis & Digitization for Healthcare

University for Development Studies

Bachelor of Science in Actuarial Science

Tamale, Ghana

Sep 2014 – Jul 2018

CGPA: 3.85/5.0 - Second Class-Upper Division

Thesis: Analysis Of Factors That Influence Academic Performance (CGPA) Of Students. A Case Study of FMS, UDS-Navrongo Campus

Skills

Programming Languages: Python, R, LaTeX, Excel, SQL

Data Science: NLP, Deep Learning, Machine Learning

Database Management Tools: SQL, Power BI

Agile Project Management: Incremental collaborative value delivery

Communication: Strong communication skills

Deep Learning: TensorFlow, PyTorch, Scikit-learn

Marketing Skills: Digital marketing, market research, customer insights

Tools: Google Analytics, social media analytics

Professional Certifications

ALX Africa Foundation <i>Data Science Programme</i> <ul style="list-style-type: none">Completed modules: Professional Foundations, Data Analytics, and Python Programming.Current module: Machine Learning (expected completion: Feb 2026).	Accra, Ghana <i>Jan 2025 – Present</i>
Advanced Learning Algorithms <i>DeepLearning.AI and Stanford Online</i>	Certificate on Coursera <i>Mar 2023</i>
Machine Learning A-Z™: Python and R in Data Science <i>Super Data Science</i>	Certificate on Udemy <i>Mar 2023</i>
Supervised Machine Learning Regression and Classification <i>DeepLearning.AI and Stanford Online</i>	Certificate on Coursera <i>Jan 2023</i>

Projects

- Artificial Intelligence for Secure Remote Healthcare Monitoring:** GitHub Repository | Live Demo
- Developed a prototype integrating an **ensemble ML model** with **MedGemma 4b-it** for disease prediction and clinical triage recommendations.
 - Achieved **95.2% accuracy and F1 score** across 5 disease classes: asthma, diabetes mellitus, healthy, heart disease, and hypertension.
 - Built an interactive **Streamlit Cloud app** enabling patient vitals input, risk analysis, and AI-guided triage feedback.
- PDF Merger App:** GitHub Repository | Deployed
- Created a **simple Streamlit web application** that merges multiple PDF files into a single downloadable document.
 - Built with **Python** and deployed on **Streamlit Cloud** for free and fast online access.

Publications

Improving Speech Recognition for Ghanaian Accents Using Transformer-Based Accent Classification. Accepted

Leadership Experience

- President, Actuarial Science Students' Association (2017/2018)

Scholarships and Awards

- Certificate of Effective Healthcare Management** — Awarded by MasterCard and University of Toronto Mississauga, Sep 2023 – May 2024
- AIMS Cooperative Program** — Awarded by MasterCard Scholars Foundation and AIMS-Senegal, Oct 2022 – Jul 2024
- Best Paper Runner-Up Award** — For the paper titled *"Improving Speech Recognition for Ghanaian Accents Using Transformer-Based Accent Classification"*, presented at the **PA-AISS 2025 Conference**, recognising excellent quality, originality, and impact.

Languages

English: Native
Arabic: Basic

References

Available on request