

Lukman Kunveng

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Summary

I am a recent graduate with a strong foundation in mathematical sciences, Artificial Intelligence and machine learning, specialising in the end-to-end development of deployable NLP and AI systems. I am seeking a PhD to deepen this work.

Work Experience

Ayzee A.I & Technology

J120, Rhode St. AOB District, Ghana

Software Development Consultant, Remote

Nov 2024 – May 2025

- I identify, develop, and implement AI-based solutions to address diverse digital challenges across multiple projects.
- I provide expert programming and software development consultations including programming, debugging and optimising codes.

Sensor6ty/ai4Sense

Saint-Quentin, France

Azure Data Scientist, Remote

Jun 2023 – Jul 2024

- Engineered an advanced speech-to-text system that improved transcription accuracy.
- Developed Voice Assistant chat-bot for interacting with media players using Rasa and GPT3.
- Evaluated speaker diarization techniques for identifying and transcribing multiple speakers in complex audio files.
- Employed machine learning techniques in Python and R for advanced data analysis and visualization.
- Worked with cloud-based and open-source tools like Microsoft Azure and Hugging Face to improve speech recognition systems.

First Atlantic Bank Ltd

Accra, Ghana

Direct Sales Executive

Jan 2019 – Dec 2020

- Managed client relationships and new business development.
- Assessed the creditworthiness of applicants and recommended approval or decline of loan requests.

Energy Commercial Bank Ltd

Accra, Ghana

Assistant Treasury Trainee

Sep 2018 – Dec 2018

- Actively participated in trading activities within the Money Market, contributing to strategic financial decisions.
- Managed and monitored the bank's interest rate positions and Net Open Position, ensuring optimal financial stability.

Education

African Institute for Mathematical Sciences

Mbour-Thies, Senegal

Master of Mathematical Sciences in Big Data

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

Mississauga, Ontario-Canada, Online.

Certificate of Effective Healthcare Management

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

Tamale, Ghana

Bachelor of Science in Actuarial Science

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

Professional Certifications

ALX Africa Foundation <i>Data Science Programme</i>	Accra, Ghana <i>Jan 2025 – Present</i>
<ul style="list-style-type: none">○ Ongoing comprehensive programme focused on Machine Learning, Data Analysis, and Data Visualisation through real-world projects.○ Completed modules: Professional Foundations, Data Analytics, and Python Programming.○ Current module: Machine Learning (expected completion: Feb 2026).	
Data Analytics <i>ALX Africa Foundation</i>	Verify Certificate <i>August 2025</i>
Professional Foundations <i>ALX Africa Foundation</i>	Verify Certificate <i>April 2025</i>
Microsoft Certified: Azure AI Fundamentals <i>Microsoft</i>	Verify Certificate <i>May 2024</i>
Foundational Methods in Data Science <i>AIMS Research and Innovation Centre, Rwanda</i>	Verify Certificate <i>Mar 18–22, 2024</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.

Skills

Programming Languages: Python, R, LaTeX, Excel, **Database Management Tools:** SQL, PowerBi
SQL

Data Science: NLP, Deep Learning, Machine Learning **Agile Project Management:** Incremental collaborative value delivery

Communication: Strong communication skills **Deep Learning:** TensorFlow, PyTorch, Scikit-learn

Publications

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

Research Interests

Topics: Artificial Intelligence, Computer Vision, Machine Learning, Natural Language Processing and Data Science

Leadership Experience

- President, Actuarial Science Students' Association (2017/2018)
- General Secretary, Actuarial Science Students' Association (2016/2017)

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.

Community Services

- Field Practical Programme - Sawla-Tuna Kalba District (May-Jun 2015 and Jun-Jul 2016)

Conferences and Summer Schools

Deep Learning Indaba: Kigali Convention and Exhibition Village, Kigali, Rwanda (17-22 August, 2025)

Winter School for Computational Modelling in Marine Ecology, Fisheries and Climate: Centre for Coastal Management-(ACECoR) University of Cape Coast and Leibniz Centre for Tropical Marine Research, Germany, at UCC Campus (27-31 January, 2023)

Scientific Writing: An Introduction: By Prof. Agostino Merico from Leibniz Centre for Tropical Marine Research, Germany, at AIMS-Senegal (13-17 February, 2023)

Deep Learning Indaba: University of Ghana, Legon-Accra, Ghana (3-9 September, 2023)

PyCon Africa: University of Ghana, Legon-Accra, Ghana (24-29 September, 2024)

Languages

English: Native

Arabic: Basic

French: Basic

References

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