

# 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

**Marketing Skills:** Digital marketing, market research, customer insights  
**Tools:** Google Analytics, social media analytics

## Professional Certifications

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### ALX Africa Foundation

*Data Science Programme*

**Accra, Ghana**

*Jan 2025 – Present*

- Completed modules: **Professional Foundations, Data Analytics, and Python Programming.**
- Current module: **Machine Learning** (expected completion: Feb 2026).

### Advanced Learning Algorithms

*DeepLearning.AI and Stanford Online*

**Certificate on Coursera**

*Mar 2023*

### Machine Learning A-Z™: Python and R in Data Science

*Super Data Science*

**Certificate on Udemy**

*Mar 2023*

### Supervised Machine Learning Regression and Classification

*DeepLearning.AI and Stanford Online*

**Certificate on Coursera**

*Jan 2023*

## Projects

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### 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

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

*Accepted*

## Leadership Experience

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

## Scholarships and Awards

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- **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-AIIS 2025 Conference**, recognising excellent quality, originality, and impact.

## Languages

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**English:** Native

**Arabic:** Basic

## References

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**Available on request**