

Curriculum Vitae

Name: Anaclet UKURIKIYEYEZU

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Hugging Face: huggingface.co/UKURIKIYEYEZU

🌐 Portfolio Website

📍 Kigali, Rwanda

SUMMARY

- Passionate about applying data science and artificial intelligence to solve impactful real-world problems.
- Skilled in machine learning, big data analytics, and database management with practical experience.
- Trained physicist and mathematician with strong analytical skills and quantitative problem-solving skills.
- Proficient in Python, R, and SQL for advanced data analysis and modeling.
- Enjoys team sports, community engagement, and outdoor activities.

EDUCATION

MSc in Mathematical Sciences

African Institute for Mathematical Sciences (AIMS Rwanda)

Kigali, Rwanda

2023 - 2024

BSc in Physics (Atmospheric and Climate Science)

University of Rwanda, College of Science and Technology (UR-CST)

Rwanda

2019 - 2023

High School Diploma in Physics-Chemistry-Mathematics

Groupe Scolaire Shyogwe

Rwanda

2017

PROJECT AND RESEARCH EXPERIENCE

Voice AI Agent for GBV Response and Public Services

Dec 2024 – June 2025

Built a Voice AI Agent with support from the AIMS Incubation Program and GIZ grant. This AI helps vulnerable people, especially GBV survivors, get early support by making it easier to access public services and important help for all.

Modular Sentiment Analysis Dashboard

May 2025

Developed an interactive NLP dashboard in Python to analyze and visualize sentiment, emotions, and topics from text data empowering organizations to extract actionable insights from customer feedback, surveys, and social media in real time.

Regal Assistance Chatbot Development

Jan 2025

Developed a chatbot using Retrieval-Augmented Generation (RAG) and fine-tuning of Large Language Models (LLMs) during a workshop at AIMS RIC. Deployed the Regal Assistance chatbot on Hugging Face.

Research Proposal: AI-Powered GBV Hotline

Oct 2024 - Dec 2024

This research examines leveraging AI technologies to support victims of gender-based violence (GBV) in Rwanda.

Master's Thesis: A Case-Based Reasoning Approach Coupled with Machine Learning *April 2024 - June 2024*

Case-Based Reasoning (CBR) system integrated with machine learning models (kNN, SVM) in Python, improving depression detection accuracy and recommending preventive measures.

SKILLS

- **Programming Languages:** Python, R, SQL and JavaScript
- **Software Development:** Intermediate proficiency in front-end and back-end development
- **Machine Learning and AI:** Predictive analytics, statistical modeling and experienced with TensorFlow, PyTorch, Keras, and Scikit-learn
- **Big Data:** Hadoop (HDFS, MapReduce), Apache Spark
- **Database Management:** MySQL, PostgreSQL, MongoDB

CERTIFICATIONS

- **Udemy Certification:** R, 2023
- **ICDL Certification:** International Computer Driving License (ICDL) for Data Analysis, 2024
- **Data Science Specialization:** Coursera, 2024

LANGUAGES

- **Kinyarwanda:** Native
- **English:** Fluent

REFEREES

1. **Prof. Blaise Tchapnda**
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2. **Dr. Joseph Ntahompagaze**
Senior Lecturer, University of Rwanda
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