Nyaika Walter

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GitHub: age-nt | LinkedIn: Walter Nyaika

Profile

Motivated undergraduate IT student with hands-on experience in machine learning, AI, and data science, bolstered by recently completing a Machine Learning course unit. Skilled in Python, C, SQL, and PHP programming, prompt engineering, and practical application of tools like PyTorch, NumPy, Pandas, and Jupyter Notebook. Completed Cognitive AI certification and attended data science seminars and the Interuniversity Hackathon Competition 2025. Eager to apply analytical skills to real-world predictive model development projects.

Education

Bachelor in Information Technology (Undergraduate)
Mountains of the Moon University, Uganda
Expected Graduation: July 2026
Relevant Coursework: Machine Learning (Completed 2025), Artificial Intelligence, Deep Learning, Systems Analysis

Technical Skills

- **Languages**: Python, C, SQL, PHP
- **Libraries/Frameworks**: PyTorch, scikit-learn, TensorFlow (basic), Pandas, NumPy
- **Tools**: Jupyter Notebook, Anaconda, Git, Visual Studio Code, WAMP Server
- **Technologies**: IoT, API Development (conceptual), EDA, Image Processing (Introductory)
- **Core Skills**: Prompt Engineering, Technical Research, System Documentation

Certifications & Training

- Certificate: Cognitive AI – Prompt Engineering
- Attended Data Science Seminar at Mountains of the Moon University
- IoT Training Completed (2024)
- Participated in Interuniversity Hackathon Competition 2025

Project Experience

Student Complaint Management System (SCMS)
Designed and implemented a system for tracking student feedback and complaints using PHP, MySQL, and sentiment analysis techniques.

House Price Prediction Project
Developed a machine learning model using Python, Pandas, NumPy, and scikit-learn to predict house prices based on features like location, size, and amenities, incorporating data cleaning and exploratory data analysis (EDA).

Achievements

- Applied EDA and predictive modeling techniques through projects and coursework, including recent Machine Learning course unit.
- Built scripts and models for real-world tasks, collaborating with peers in seminars and hackathons, including the Interuniversity Hackathon Competition 2025.

References

Mr. Ocen Samuel
Head of the Department of Computer Science
Mountains of the Moon University
Email: samocenuel@gmail.com

Statement of Interest

I am a passionate undergraduate IT student at Mountains of the Moon University with a solid background in machine learning, artificial intelligence, and data science, strengthened by recently completing a Machine Learning course unit in 2025. My experience includes practical projects where I applied Python, PyTorch, Pandas, NumPy, and Jupyter Notebook to real data tasks, as well as a Cognitive AI certification in prompt engineering that has enhanced my skills in modern AI workflows.

During my academic journey, I have attended data science seminars and participated in the Interuniversity Hackathon Competition 2025 to expand my understanding of predictive analytics and real-world applications of AI. I have developed systems that required planning, coding, testing, and documenting – skills I am confident will help me contribute effectively to HailNumbers' mission to build predictive models for throat cancer detection and classification.

I am excited by the opportunity to gain hands-on experience in image processing, EDA, API development, and deploying models that can have a positive impact on people's lives. I am eager to collaborate with a diverse team of professionals and to learn advanced techniques to solve practical health challenges through machine learning.

I am confident my strong foundation in Python, my experience with PyTorch and data science tools, and my dedication to applying AI for social good align well with HailNumbers' vision. I look forward to contributing my skills and growing through this opportunity.

Thank you for considering my application.
Nyaika Walter