

Gentile Uwera

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[Gentile Uwera | LinkedIn](#)

SUMMARY

Motivated Artificial Intelligence Engineer, focused on Machine Learning, Digital Education, and Natural Language Processing. Currently conducting EdTech research on learning behavior modeling, data-driven content optimization, and personalized learning systems. Strong technical foundation in ML, software engineering, and data analysis, with growing experience in academic research.

EDUCATION

Masters of Science in Engineering AI **Aug 2025 - May 2027**
Carnegie Mellon University, Africa

Bachelor's degree in Information Technology **June 2022 - Nov 2025**
Adventist University of Central Africa

IEEE VOLUNTEERING ACTIVITIES

Secretary, IEEE Rwanda Subsection **Nov 2025 - Present**
Rwanda Subsection, Rwanda

- Coordinate IEEE Rwanda Subsection meetings, maintain official records, and support member communications and event planning.

Treasurer, IEEE IES Rwanda Chapter **Nov 2025 - Present**
Rwanda subsection, Rwanda

- Manage chapter finances, track budget allocations, and support financial reporting for IEEE IES Rwanda Chapter activities .

PROFESSIONAL EXPERIENCE

Graduate Summer Intern **Jun 2026 - Aug 2026**
Carnegie Mellon University Africa

- Building a learning analytics system for CMU-Africa's Python for AI certificate program on Canvas, focused on identifying at-risk learner behaviors and automating targeted interventions.
- Developing automated response workflows to communicate with learners and teaching assistants when flags are detected, with full audit tracking of system decisions.

EdTech Research Assistant — Academic Research **Dec 2025 - Jun 2026**
Carnegie Mellon University Africa

- Supporting research on Learning Engineering (LE) to model learner behavior and improve digital content for out-of-school youth.
- Analyzing student interaction data using data science and ML techniques to inform personalized learning pathways.
- Designing and evaluating user-centered digital learning experiences using LMS and instructional design tools.

OpenText Technical Support Engineer **Apr 2025 - Aug 2025**
TeKnowledge, Kigali

- Resolved complex ArcSight SIEM issues via diagnostics and collaboration with engineering.
- Guided clients on performance optimization, health checks, and secure configurations.

IT Officer **Oct 2024 - Mar 2025**
National Post Office, Kigali

- Provided staff training on digital tools while deploying and documenting system upgrades to improve efficiency.

PROJECTS

Student Progress Dashboard — CMU-Africa Summer Internship

Dec 2025 - Present

- Designing an automated system to analyze learner profiles in Canvas, detect at-risk behaviors, and trigger targeted responses to improve student success in AI/ML certificate courses.
- Building AI integration with Canvas LMS and an audit system to track all automated decisions and the data behind them.

Learning Engineering for Digital Education — CMU-Africa Research Project

Dec 2025 - Present

- Supporting research on Learning Engineering (LE) to model learner behavior and improve digital content for out-of-school youth in Rwanda.
- Applying ML and analytics to understand learner behaviors and improve instructional pathways.
- Contributing to the design of personalized recommendation systems for educational content.

AI-Powered Personal Finance Management — Undergraduate Research

Aug 2024 - July 2025

- Designed and developed an AI-driven personal finance system integrated with real-time banking data.
- Built a mobile app and a web dashboard for expense-tracking, automated budget insights behavioral credit risk analysis.

SKILLS

- **Technical:** Python, SQL, Git, PyTorch, Scikit-learn, data analysis, Google Cloud, LMS platforms (Canvas)
- **Research & EdTech:** Learning analytics, learner data analysis, LMS integration, academic research, data annotation
- **Soft Skills:** Communication, teamwork, leadership, and adaptability

INTERESTS

Learning Analytics | EdTech Research | AI in Education | Human-AI Interaction | Policy Analysis