# Sudi Murindanyi

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## EDUCATION
**Makerere University**
**BSc in Computer Engineering**
Final Year Project: "Design of a Machine Learning Based Traffic Control System" "Reinforcement Learning Project"

**MSc in Computer Science**
Dissertation: Deep Learning Based Models For Yield Estimation Using Drone Imagery"

## RELATED AI COURSES
**Graduate**
Machine Learning, Deep Learning, Computer Vision, Data Mining, Data Analysis and Visualization, Cloud Technologies and Architecture

**Undergraduate**
Digital Image and Video Processing, Audio and Speech Signal Processing, Software Engineering, and Database Systems

## CERTIFICATES
- **Coursera Specializations:** Deep Learning, Natural Language Processing, Machine Learning, Mathematics for Machine Learning, AI for Medicine, Applied Data Science with Python, Executive Data Science, and TensorFlow in Practice ( All are Coursera Specializations with 3 to 7 courses)
- **Dataquest Paths:** Data Engineer and Data Scientist both from Dataquest.io
- **WorldQuant University Certificates:** Machine Learning & Statistical Analysis, and Scientific Computing for Data Science, both from WorldQuant University

## SKILLS
- **Python, JavaScripts, C, R**
- **D3.js, Django, React, React Native**
- **Scikit-learn, TensorFlow, PyTorch, JAX**
- **CV, NLP, RL**

## STUDY SCHOLARSHIP
**Google DeepMind Scholarship**
Honoured with the Google DeepMind Scholarship in recognition of academic excellence and a steadfast commitment to driving innovation in transformative education.

## EXPERIENCE
**Makerere University** *Teaching Assistance| Oct 2023 - Dec 2025*
Assisted senior lecturers in teaching the Machine Learning and Computer Vision courses for the Master of Computer Science program.

**Marconi Lab** *Research Scientist/ML Engineer | May 2021 - Dec 2025*
Developing diverse AI projects and orchestrating valuable internship programs for students.

**Omdena** *Lead ML Engineer/Technical Mentor | Feb 2020 - Present*
Developed AI for societal challenges, mentoring Junior ML Engineers in NLP and CV applications.

**Kin-keepers** *AI Advisor/ML Engineer | Feb 2021 - May 2023*
Created synthetic ML model data for Alzheimer's and Aphasia; developed Alexa skills for senior care.

**Omdena Uganda** *Chapter Lead | 2021 - 2022*
Founded the Omdena branch in Uganda and promoted AI4GOOD through educated regional AI enthusiasts.

## PROJECTS WITH PUBLICATIONS
- Authored or co-authored 10+ publications in internationally recognised conferences and high-impact journals over the past three years of research.
- Presented and submitted 7 journal articles as author or co-author, currently under review and awaiting online publication.

## CURRENT AREAS OF RESEARCH
- Advanced 3D and video data analysis and modelling.
- Multimodal models for medical and agricultural data.
- Diffusion models for predictive analytics.
- AI-driven object counting and re-identification (ReID).
- Edge deployment of machine learning models for real-time field applications.
- Cross-domain AI applications.