

# GEDEON MUHAWENAYO

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## EDUCATION

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### African Institute for Mathematical Science / Master's Degree

October 2019 - Present, GHANA

**African Masters in Machine Intelligence-AMMI** (Intro to Machine learning, Mathematics for machine learning, Deep learning, Natural language processing, Computer vision, Optimization of machine learning models, etc).

### University of Rwanda / Bachelor of Science

September 2015 - July 2019, Rwanda

**Bsc. Electronics and Telecommunication Engineering**, 81% cumulative average, student with the maximum average.

( Mathematics, Physics, Python, C++, Matlab, Image processing, Signals processing, Embedded systems, etc.)

## PROJECTS

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- **Computer vision: Cassava Diseases Classification**, Classifying pictures of cassava leaves into 1 of 4 diseases or hearth.
- **Animal Species detection in image**: AI model to be deployed on Raspberry Pi, as a node in a network of distributed AI-based IoT systems.
- **Efficient conv-nets**: A research project on techniques of optimizing convolutional neural networks so that they can run efficiently on mobile devices and IoT nodes.
- **Embedded systems: Biometric attendance device**, Electronic device to be used to record time attendance of both students and lecturer(teachers) where internet connection is unreachable.
- **Signals and Functions analyzer UI**: A desktop app (GUI) for analysing signals and visualization.
- More projects can be found here on my website under the [Projects](#) portal.

## WORK EXPERIENCE

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### Spectrum AI / Computer vision Intern

March 2020 - Present, Remote Internship

**Binary Graph convolutional Neural Networks**: Memory and computational efficient, binarized Graph CNN

### University of Rwanda / Laboratory Assistant

June 2019 - October 2019, Kigali-Rwanda

**Main duties**: Assisting Lab lecture sessions, Delivering Labs, Guiding practical activities for students' projects, etc.

## COMPETENT SKILLS

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**Programming & Frameworks**: Python, C,C++, PyTorch, OpenCV, Numpy, Pandas, Scikit learn, Detectron2, etc.

**SUPERVISOR**: I am working on optimizing detection models, supervisor is [Georgia Gkioxari](#), a researcher at FAIR.