

The Africa-Europe Cluster of Research Excellence: Addressing Global and African Challenges Through Methods of Artificial Intelligence, Data Science, and Theoretical and Computational Thinking

presents a

# MASTERCLASS – DAY II: Responsible AI, bias and fairness

Friday, 17 November 2023

South Africa: 10h30-13h00 (GMT+2) | Sweden: 9h30-12h00 (GMT+1)

## Teachers:

- Dr Joyce Nakatumba-Nabende (Makerere University)
- Dr Andrew Katumba (Makerere University)

## VENUES:

- Ångström Laboratory, University of Uppsala, Sweden
- Neelsie Cinema, Stellenbosch University, South Africa
- Online

## ABSTRACT

This is a half-day introduction to responsible AI and bias in machine translation models for African languages, in particular.

Currently, there is significant interest in building Natural Language Processing (NLP) tools for African languages to enable various applications, especially those requiring local context. This is, however, hindered by the low availability of text datasets to support this effort, as opposed to more resourced languages like English, Swedish, etc.

In this workshop, we introduce concepts of Responsible AI when building models for machine translation models for African languages. We will use a case study and discuss the approach we have taken to evaluate and quantify the gender bias within a Luganda-English machine translation system using the Word Embeddings Fairness Evaluation Framework (WEFE).

For more information, please visit [core-ai.sun.ac.za](https://core-ai.sun.ac.za)

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