



## CALL FOR APPLICATION

### **Machine Learning and Computational Statistics Professional Short course 1<sup>st</sup> February – 11<sup>th</sup> February 2022**

The African Centre of Excellence in Data Science (ACE-DS), College of Business and Economics (UR-CBE) at the University of Rwanda wishes to inform all interested professionals with quantitative research background to apply for a "Machine Learning and Computational Statistics" professional short course to be held online from 1<sup>st</sup> to 11<sup>th</sup> February 2022 at 5:00 pm to 9:00 pm.

#### **Overview of Machine Learning and Computational statistics short course**

This course is organized by the African Centre of Excellence in Data Science and will be facilitated by Dr. Emmanuel Dufourq from the African Institute for Mathematics Sciences, South Africa assisted by faculties from ACE-DS. The aim of this course is to enhance the capacity of professionals with quantitative research background to provide cut aged analytical techniques for scientific evidence to support (or refute) the efficacy and scalability of policies and programs within Rwanda and Africa in general.

This is a two-weeks course where participants will cover a variety of topics in machine learning. The specific lecture topics are as follows: Decision trees; K-nearest neighbour and error-based learning; Tutorial on decision trees and K-NN; Linear regression, logistic regression, multivariate regression; Tutorial on regression; Neural networks; Tutorial on neural networks; Deep learning; Tutorial on deep learning and Ensemble and unsupervised learning.

The course uses real data as motivating examples for each topic to allow students to easily digest the concepts in a friendly manner. The lectures will be of tutorial style to boost the state of the art in Machine Learning subject.

#### **Objectives**

The objective of this Course is to give a broad overview of many relevant topics in machine learning and to help training the next generation of machine learning researchers. This course provides practical skills in data analytics using machine learning & computational statistics approaches.



**Qualification of participants:**

The course is designed for Professionals/Researchers/Postgraduate students/others with knowledge in quantitative methods.

**Award:**

Candidates who will successfully complete this course will be awarded a Certificate of Completion.

**Registration Fees:**

- 200,000 RWF (200 USD) for Rwandans and East African citizens
- 300,000 RWF (300 USD) for others

**Bank Account Details (RWF)**

Bank Account Number: 100022294697

Bank Account Name: UR/ACE-DS

Bank Name: Bank of Kigali

SWIFT CODE: BKIGRWRW

**Bank Account Details (USD)**

Bank Account Number: 100022294778

Bank Account Name: UR/ACE-DS

Bank Name: Bank of Kigali

SWIFT CODE: BKIGRWRW

**Deadline for application:** Deadline for application is on 30th January 2022. Selected candidates will be notified by 31<sup>st</sup> January 2022.

**Application process:** To apply, please pay the registration fees and fill the form below available on: <https://bit.ly/3z7ZzKg>

The course will be starting from 5:00 pm to 9:00 pm every day.

For any enquiry, email: [nzaramymanac@gmail.com](mailto:nzaramymanac@gmail.com) or Phone: +250 788456452

Done at Kigali on 30<sup>th</sup> December 2021

**Dr. Charles Ruranga**  
Director  
African Centre of Excellence in Data Science (ACE-DS)