

## CERTIFICATE OF INTERSHIP

We, the undersigned, **The Computer Science, Systems Modeling and Decision Aid Laboratory**, hereinafter referred to as "**LIMSAD**", represented by its Director **Professor Khalid MOUSSAID** and the head of the **Operational Research and Decision Aid team (ROAD)**, **Professor Abdeltif EL BYED** of **Science Faculty, Hassan II University of Casablanca- Km 7 Route d'El Jadida Casablanca, Morocco**, hereby certify that:

- **Mr KIBINDA-MOUKENGUE Mikhaël Presley**

Student in **Master Research in Big Data at African Institute for Mathematical Sciences**, designated hereafter by «**AIMS**» - Km2 Route Joal-Centre IRD Mbour BP: 1418, Mbour, Sénégal-, has completed an internship in our LIMSAD laboratory as a trainee, from the period between:

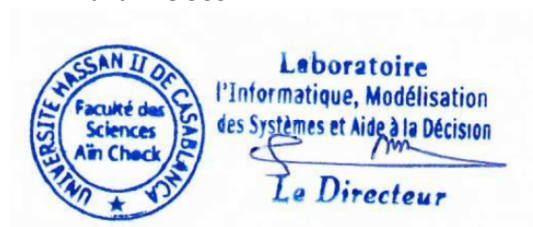
- **From 20/07/2020 to 20/01/2021. Either a period of 6 months.**

Within the context of this internship, Mr. **KIBINDA-MOUKENGUE Mikhaël Presley** worked on a Research and Development project, entitled «**Covid-19 detection from Pneumonia image classification using Deep Learning** »

As part of his mission, Mr. **KIBINDA-MOUKENGUE Mikhaël Presley** was supervised by **Abdeltif EL BYED**.

This certificate is issued to serve and be valid as of right.

The Director of LIMSAD  
Pr. Khalid MOUSSAID



The Head of ROAD  
Pr. Abdeltif EL BYED



The internship supervisor  
Pr. Abdeltif EL BYED

