BENJAMIN **BENTEKE LONGAU**
+1 (519) 731-9262
bbenteke@uoguelph.ca, bbenteke@aimsammi.org, benjamin.benteke@aims-senegal.org, benjamin.benteke@unikin.ac.cd, LinkedIn, Github

EXPERIENCE

DECEMBER 2021-MARCH 2023

TEACHING ASSISTANT, AFRICAN MASTER'S IN MACHINE INTELLIGENCE (AIMS-AMMI), SENEGAL

TASKS: **LECTURES AND TUTORING**

- Tutoring and lectures in machine intelligence.

DATES AUGUST 2020 – DECEMBER 2020

DATA SCIENTIST INTERN, ADN TECH, SENEGAL.

- *Project:* Implementation of a credit scoring model for SMEs based on financial data, mobile transaction data and social networks.
- *Tasks*: *Models development and deployment for SMEs*

AUGUST 2017-AUGUST 2019

TEACHING ASSISTANT, UNIVERSITY OF KINSHASA.

- *Tasks*:
    - Tutoring in mathematics and computer science courses;

MARCH 2018-APRIL 2018

ADJUDICATOR, CENI-RDC.

- *Tasks*: Preparation of the electoral file (Election DRC 2018)

JULY 2017-AUGUST 2017

COMPUTER SCIENTIST INTERN, EPSP-RDC.

- *Tasks*: Work on Excel, Realization of synthesized tables on Excel

EDUCATION

SEPTEMBER 2022-CURRENT

PHD STUDENT, UNIVERSITY OF GUELPH (50 STONE RD E, GUELPH, ON N1G 2W1, CANADA)

JANUARY 2021

MASTER DEGREE, AFRICAN'S MASTER IN MACHINE INTELLIGENCE. (AIMS-SENEGAL KM2 ROUTE DE JOAL (CENTRE IRD), BP: 1418, MBOUR-THIÈS, SÉNÉGAL.)

An intensive machine learning master program hosted by the African Institute For Mathematical Science (AIMS) in partnership with Facebook and Google.

SEPTEMBER 2019-FEBRUARY 2021

MASTER DEGREE, AFRICAN INSTITUTE FOR MATHEMATICAL SCIENCES (AIMS-SENEGAL KM2 ROUTE DE JOAL (CENTRE IRD), BP: 1418, MBOUR-THIÈS, SÉNÉGAL.)

An intensive Mathematics and Application (Speciality: Big Data) master program hosted by the African Institute For Mathematical Science (AIMS) in partnership with Canadian government and MasterCard foundation.

OCTOBER 2012-JULY 2017

LICENCE (BAC+5), UNIVERSITY OF KINSHASA.

SKILLS/INTERESTS

- Foundation Machine learning
- Foundation Deep learning
- Learning theory
- Statistical learning
- Applied Mathematics
- Mathematical modeling
- Agent based modeling
- Numerical Linear Algebra
- Game theory and applications
- Robust adversarial examples
- GAN and VAEs
- Explainable AI
- Optimization for Machine and deep learning
- Machine and Deep learning
- Data Engineering (Collection, Organisation and deployment)
- Web scraping
- Power BI & Tableau
- Excel
- Proficiency in Python (Pure Python, Numpy, Pytorch, Tensorflow, scripting)
- Git and Github
- Github action,
- Bash, linux and Mac OS
- Scripting in Python
- Anylogic for Epidemiology
- Julia
- Model Deployment

COURSE PROJECTS

- ***Deep Reinforcement learning for Balancing CartPole v-1. Link***
- Explainable AI using integrated Gradient: ***link***
- Adam and decouple weighted decay regularization: ***link***

INVITED TALKS

- ***Explainable Deep Neural Network. Link, Optimall 2023***

HONORS AND AWARDS

- ***Google and Facebook award (AI Program in machine intelligence, AMMI, Mbour, Senegal 2020);***

- *Next Einstein initiative Master's Scholarship, AIMS, Mbour, Senegal 2019.*

CERTIFICATIONS

- Specialization in data science, link
- Specialization in Python, link
- Deep learning, link1, link2, link3

- Machine learning and Big data, link1, link2, link3, link4,
- Version control with Git and Github, link.

COMPETITIONS

- **Financial resilience challenge, Umoja-Africa 2021. Winner, Second Prizes,** Click.
- **AIMS Hackhaton, organised by Microsoft,** Click.
- **Challenge expresso sur la prediction d'attribtion de clients,** Click.
- **Hotspots prediction, Umoja-Africa 2021,** Click.