Jeannette Nyirahakizimana
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About Me

A data enthusiast and data scientist highly interested in big data and machine learning with the ability to apply Machine learning techniques and leverage algorithms to solve real word problems.

Experience

AIMS-ISHANGO DATA SCIENCE FELLOWSHIPS/ Data Scientist Intern
September, 2021 - November,2021, Kigali - Rwanda

By using remote sensing monitoring and available public satellite image datasets like sentinel data, landsat data and MODIS data, Identify the tobacco fields and the area of that field and yield estimation.
The case study is Malawi and Mozambique.
Build a model which can identify the tobacco fields.
By using image detection as well as image classification.
After getting the area of the fields, we can estimate the yield.

African Institute for Mathematical Sciences Global Secretariat / Data Analyst Intern
June, 2019 - December,2019, Kigali - Rwanda

Worked on data visualization, analysing data collected across the country from 2013-2018 by making a dashboard for performances. Also developed an algorithm to understand the similarity between the various parameters that causes the employer turnover as well as predictive models for employer attrition.

College Doctrinae Vitae / Mathematics and Physics Teacher:Advanced Level
January, 2018 - July, 2018,Kigali-Rwanda

I enjoyed giving back to my community through this math and physics teaching experience where I taught how to solve real life problems using mathematics kids. I attended math olympiads as a trainer and some of our students won to go compete in Tunisia.

Nyabimata Health center / Junior Data Analyst Intern
January, 2016 - June, 2016, South Province - Rwanda

Led the data collection from different health center departments,

performed data visualization and analysis. Initiated a database to record birth and mortality data. Built a model to map population distribution over the sector by age,gender and medical conditions.

Education

African Master in Machine Intelligence / Master in Machine Intelligence
January, 2021 - September/2021, Mbour-Senegal

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

African Institute for Mathematical Sciences(AIMS) / Master In Mathematical Sciences
August, 2018 - February, 2020, Kigali-Rwanda

AIMS is a pan-African network of Centres of Excellence for post-graduate training, research and public engagement in mathematics and big data.

College of Sciences and Technology/ Bachelor in Applied Mathematics
September, 2012 - July, 2016, Huye-Rwanda

It is functioning as a Technology specialized college in teaching and training of highly skilled personnel in the fields of pure and applied sciences and engineering .

Certifications

2021: PRAIRIE/MIAI Artificial Intelligence Summer school

INRIA and the Institutes PRAIRIE and MIAI(online).

2020: Mathematical modelling of ecological system

African Institute for Mathematical Sciences, SENEGAL.

2020 :**African School for catalysis**

East African Institute for Fundamental Research (**EAIFR**)-

International Centre of Theoretical Physics (ICTP) ,RWANDA

2019 : **International Computer Driving License**

ICDL ,RWANDA

2019: **Big Data Analytics with Python short course**

African Institute for Mathematical Sciences,RWANDA

Massive Online Open Courses(MOOC).

2021: Machine Learning foundation courses on AWS platform

2021: Computer vision and its applications on AWS platform

2021: Reinforcement learning and its application on AWS platform

2021: Introduction Generative AI on AWS platform

2021: Data Structures and Algorithm in python on UDACITY platform

2021: Version control with Git on UDACITY platform

2021: Introduction to Data analysis on UDACITY platform

2019: Microsoft excel 2016 Intermediate on ICDL platform

2019 ; Microsoft excel 2016 Advanced on ICDL platform

2018: Analyzing and Visualizing Data with Microsoft Excel on edX

2018: Big Data 101, Cognitive Class, An IBM Initiative

2018: Data Analysis with R on Data Camp

2018: Data Analysis with Python on Codecademy

2018: Data Analysis with Python on Data Camp

Seminars and workshops

2021: Ghana Data Science Summit 2021(IndabaXGhana)

2021: Smart Data Series 2021- Africa

2021:Learning from Data: The Two Cultures,ACM Learning Center.

2021: Gender in STEM, African Institute for Mathematical Sciences.

Skills

Python Programming Language.

. R Programming Language.

. Advanced Excel

. MS Office