ENGELBERT TCHINDE WAMBA
Data Scientist | Machine Learning | AI Enthusiast

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I am a dynamic, passionate and optimistic individual who seeks to achieve best results from limited time and resources. Following an intensive Machine Learning Master program hosted by the African Institute For Mathematical Science (AIMS) in partnership with Facebook and Google. This Master with 6% of acceptance rate. This program allowed me to acquire programming and data analysis techniques and specifically data engineering, machine learning, advanced analytics skills. I aspire to join and work with an industry that is interested in modelling and solving problems of any kind, and also build a model and advanced data analysis.

🎓 EDUCATION

Jan 2021-Now	An intensive Machine Learning Master program hosted by the African Institute For Mathematical Science in Senegal (AIMS) in partnership with Facebook and Google, Majoring in Machine Intelligence
Modules :	Introduction to Machine Learning, Optimization for Machine Learning, Foundations of Machine Learning, Convolutional Neural Networks, Foundations of Deep Learning, Natural Language Processing (NLP), Reinforcement Learning, Computer Vision.
Thesis :	Building a deep learning model for spatial data analysis (in progress)
Final Grade :	Not available
2019-Feb 2021	Master in Mathematical Science (Big data and computer security), African Institute for Mathematical Sciences (AIMS), Senegal
Modules :	Data Science, High Dimensional Data Analysis, Data Engineering, Probabilitics and Statistics, Networking and Security, Elliptic Curves and Cryptography, Continuous Numerical Optimization.
Thesis :	Cryptanalysis and algebraic computations : Gröbner basis based cryptanalysis of cryptosystem and analysis of a multivariate public key scheme.
Final Grade :	Very Good Pass (Above 80%)
2017-2019	Master's degree in Applied Mathematics, Partial Differential Equations (PDEs), University of Dschang, Cameroon
Thesis :	Black hole geometry of Reissner-Nordström.
Final Grade :	Good Pass (Above 70%)
2014-2017	Bachelor's degree, Majoring in Mathematics and Computer Science, University of Dschang, Cameroon

➕ RESEARCH INTERESTS

> Data Science
> Machine Learning
> Deep Learning
> Artificial Intelligence

➕ RESEARCH INTERESTS

> Data Analytics
> Data Mining
> Statistical Modeling
> Optimization

💼 EXPERIENCE

November 2021 **September 2021**	**PMI-Internship	Ishango.ai, KIGALI, Rwanda** Use remote sensing to identify classify farm fields in the target country. `Remote sensing` `Python` `Google Earth Engine` `QGIS`
January 2021 **October 2020**	**Research trainee	SATWII Solutions, QUEBEC, Canada** > Find an innovative optimization algorithm to solve an optimal power flow problem > SATWII Solutions is a Quebec-based company founded by Dr. Nassirou Lo specializes in the development of innovative technological tools that facilitate strategic and tactical planning. `MatLab`

2019	Teaching Assistant , ABSDs, Association of Bansoa Students of Dschang
2018	> Helped students in the disciplines they encounter a lot of problem
	> Taught classes in some scientific subjects : Mathematics, Physics
	> Organized, advertised and published any event organized by the association
	Microsoft word

2016	Project Group Leader , PROJECT, University of Dschang
2015	> Created a web pages
	> Created a dynamic web pages
	HTML CSS

☰ IT SKILLS

Programming Language	Python, Java, R, HTML & CSS
Software	MatLab, SageMath, ArcGIS
Data Science	Data Pipeline Modelling, Data Pre-processing, Data Cleaning, Data Visualization
Machine Learning	Regression, Classification, Clustering, Tree Based Algorithms, Bagging, Boosting
Deep Learning	Neural Network, CNN, RNN, LSTM, Transformer architecture, PyTorch, Tensorflow, Keras, OpenCV
Tools & Libraries	Spacy, SciSpacy, Pandas, Sklearn, Jupyter, Anaconda, Numpy, Seaborn
Data Base	Microsoft SQL Server, MySQL, PostgreSQL
Development tools	Eclipse, Visual Studio Code, git
Operating systems	Mac OS Sierra, Windows 10, Windows 7, Linux Centos

🌐 LANGUAGES

French ● ● ● ● ●
English ● ● ● ○ ○

✚ STRENGTHS

> Passionate
> Rigorous
> Motivated
> Autonomous

🎓 PROFESSIONAL ONLINE TRAINING

2020	Certificate of completion in Cybersecurity Essentials issued by Cisco Networking Academy
2020	Badge in Cybersecurity Intro issued by IBM check here
2020	Badge in Python issued by IBM check here
2020	Certificate in Real-Time Cyber Threat Detection and Mitigation issued by Coursera check here
2020	Certificate in Python Functions, Files, and Dictionaries issued by Coursera check here
2020	Certificate in Introduction to Data Science in Python issued by Coursera check here
2020	Certificate in Data Collection and Processing with Python issued by Coursera check here

🌐 COMPETITIONS PARTICIPATED

2021	Certificate of participation in the PRAIRIE / MIAI Artificial Intelligence Summer School (5th - 9th July)
2021	Participation on Zindi Hackathon in AIMS Data Science
2021	Participation on Kaggle challenge : Cassava disease classification
2020	Certificate of participation in the cyber security hackathon issued by BeOpenIT in Senegal
2020	Certificate of participation in the IT, IoT and security hackathon issued by ActInSpace in Senegal

✚ AWARDS AND SCHOLARSHIPS

> Masters Scholarship awarded by AMMI (African Masters Of Machine Intelligence) in Senegal (2021)
> Masters Scholarship awarded by AIMS (African Institute for Mathematical Sciences) in Senegal (2019)
> Academic excellence award from University of Dschang (2015, 2016, 2017, 2018)

☰ ORAL PRESENTATION

February 2021	Oral presentation of my Master thesis at AIMS Senegal
2020	Oral presentation of our project of challenge ActInSpace at Dakar, Senegal
July 2019	Oral presentation of my Master thesis at University of Dschang, Cameroon

🖥 PROJETS

APPLICATION OF OPTIMIZATION TO THE OPTIMAL POWER FLOW PROBLEM   OCTOBER 2020 - JAN 2021

☑ Template on Overleaf

This project allows us to find an innovative algorithm which will be use to maintain the balance between the supply and demand of electricity.

LaTeX   MatLab

CRYPTANALYSIS AND ALGEBRAIC COMPUTATIONS : GRÖBNER BASIS-BASED CRYPTANALYSIS OF CRYPTOSYSTEM AND ANALYSIS OF AMULTIVARIATE PUBLIC KEY SCHEME   MAY 2020 - JULY 2020

☑ Template on Overleaf

This project allows us to know if it is possible to break some cryptographic schemes. Since its purpose is to analyze the security of a multivariate public key cryptosystem using Gröbner's bases, we showed using Gröbner's bases that it is possible to break cryptographic schemes when we have small key length.

LaTeX   SageMath

BLACK HOLE GEOMETRY OF REISSNER-NORDSTRÖM   MARCH 2019 - JUNE 2019

This project shows the behaviour of geodesics close to the black hole singularity whose geometrical framework is the Reissner-Nordström one.

LaTeX