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. 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 is based on Foundations of Machine Learning, Foundations of Deep Learning, Convolutional Neural Networks, Computer Vision, Optimization for Machine Learning, etc. I hold a MSc in mathematical sciences from AIMS Senegal, a MSc in applied mathematics and also a bachelor's degree in mathematics and computer science from University of Dschang Cameroon. While at AIMS I have enjoyed a wide range of programming, statistical and mathematical tools. With these tools, I have developed experience and expertism in fields related to problem-solving using one of the above tools. This exprience has enabled me to solve some problem (like optimal power folw problem) which is a problem that needs to be solved to maintain the balance between the supply and demand of electricity. 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 analysis of data.

Education

Jan 2021-Sept 2021	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
2019-Feb 2021	Master in Mathematical Science (Big data and computer security), African Institute for Mathematical Sciences (AIMS), Senegal
2017-2019	Master's degree in Applied Mathematics, Partial Differential Equations (PDEs), University of Dschang, Cameroon
2014-2017	Bachelor's degree, Majoring in Mathematics and Computer Science, University of Dschang, Cameroon

Experience

November 2021 – September 2021 | **PMI-Internship | Ishango.ai, Kigali, Rwanda**
- Use remote sensing to identify tobacco fields.
- Use remote sensing to measure the area of tobacco fields.
- Tobacco yield estimation.

Remote sensing tool | Python | SageMaker | AWS | 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 – 2018 | **Assistant teacher , ABSDs, Association of Bansoa Students of Dschang**
- 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 – 2015 | **Project Group Leader , Project, University of Dschang**
- Created a web pages
- Created a dynamic web pages

HTML | CSS

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 awarded by University of Dschang (2015, 2016, 2017, 2018)

Skills

Programming & tools	**Python** (PyTorch, Tensorflow, Keras, OpenCV, etc), **R**, **SageMath**, **MatLab**, **Octave**, **HTML**, **CSS**, **Java**
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
- Motivated
- Autonomous

Interests

- Data Science
- Machine Learning applications
- Optimization
- Artificial Intelligence

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 Aritificial 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

Oral presentation

Febuary 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

Optimal power flow problem is a problem that allow us to found an innovative algorithm whose people will need to maintain the balance between the supply and demand of electricity.

LaTeX MatLab

Cryptanalysis and algebraic computations : Gröbner basisbased cryptanalysis of cryptosystem and analysis of amultivariate public key scheme May 2020 - July 2021

Template on Overleaf

Cryptanalysis and algebraic computations is a project that allows us to know if it is possible to break some cryptographic schemes. Thus its purpose is to analyze the security of a multivariate public key cryptosystem using Gröbner's bases.

LaTeX SageMath

Black hole geometry of Reissner-Nordström March 2019 - June 2019

The goal of this thesis is to study the behaviour of geodesics close to the black hole singularity whose geometrical framework is the Reissner-Nordström one.

LaTeX