


Engelbert TCHINDE WAMBA

Data Scientist | Machine Learning | AI Enthusiast

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 1996-07-10

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 experience has enabled me to solve some problem (like optimal power flow 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

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|--------------------|---|
| 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

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|---------------------------------|---|
| November 2021 September 2021 | PMI-Internship Ishango.ai, KIGALI, Rwanda <ul style="list-style-type: none">> Use remote sensing to identify tobacco fields.> Use remote sensing to measure the area of tobacco fields.> Tobacco yield estimation. <div>Remote sensing tool Python SageMaker AWS QGIS</div> |
| January 2021 October 2020 | Research trainee SATWII Solutions, QUEBEC, Canada <ul style="list-style-type: none">> 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. <div>MatLab</div> |
| 2019 2018 | Assistant teacher , ABSDs, Association of Bansa Students of Dschang <ul style="list-style-type: none">> 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 <div>Microsoft word</div> |
| 2016 2015 | Project Group Leader , PROJECT, University of Dschang <ul style="list-style-type: none">> Created a web pages> Created a dynamic web pages <div>HTML CSS</div> |

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

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| 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

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| 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

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|------|---|
| 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 |

ORAL PRESENTATION

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| 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](#)

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.

CRYPTANALYSIS AND ALGEBRAIC COMPUTATIONS : GRÖBNER BASISBASED CRYPTANALYSIS OF CRYPTOSYSTEM AND ANALYSIS OF AMULTIVARIATE PUBLIC KEY SCHEME

MAY 2020 - JULY 2021

 [github.com/Engelbert107/Implementation_{with}sageMath](https://github.com/Engelbert107/Implementation_with_sageMath)  [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.

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.



“ REFERENCES

Nassirou Lo

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Jean Baptiste PATENOU

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