

Engelbert Tchinde Wamba

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About me:

I am a very committed, motivated and rigorous person in the work. I have skills in mathematics, statistics and programming. I have experience in data visualization, data cleaning, data modeling, supervised and unsupervised machine learning algorithms. I have experience in scientific research. I am a team player and also autonomous. I am looking to join your team to bring excellence.

● WORK EXPERIENCE

03/09/2021 – 16/11/2021 – Kigali, Rwanda

DATA SCIENTIST – PHILIP MORRIS INTERNATIONAL

Using remote sensing concept, I created an unsupervised and supervised machine learning model to identify, classify farm fields in the country of interest:

- I visualized the data, computed the NDVI (Normalize Difference Vegetation Index) to know the vegetation indices of the area.
- I plotted the time series NDVI to know his variation over a certain time.
- I make some analysis was done like Trend and Seasonality to better understand time series NDVI.
- I builded a supervised machine learning algorithm to classify different farm fields in the target country and build an automate pipeline for the work.

11/10/2020 – 11/01/2021 – Quebec, Canada

OPERATIONAL RESEARCH TRAINEE – SATWII SOLUTIONS

I Improved an optimization algorithm to solve an optimal power flow problem:

- I studied the problem.
- I evaluated the implementation result of three optimization algorithms.
- I improved the best algorithm by tune his hyper-parameters.

06/10/2016 – 10/05/2018 – Dschang, Cameroon

SECONDARY SCHOOL TEACHING AIDE – ASSOCIATION OF STUDENTS

I have helped students in mathematics: algebra, calculus, trigonometry and statistics.

● EDUCATION AND TRAINING

19/01/2021 – 26/09/2021 – Trypano, Mbour, Senegal

SHORT TIME MASTER IN MACHINE INTELLIGENCE – African Masters in Machine Intelligence (AMMI)

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.

Field(s) of study

- Machine Intelligence

<https://aimsammi.org/>

02/09/2019 – 21/02/2021 – Trypano, Mbour, Senegal

MASTERS IN MATHEMATICAL SCIENCES – African Institute for Mathematical sciences (AIMS)

Linear Algebra, Statistics, NetworkX, Introduction to Python, Introduction to Network Architecture, Hacking, Introduction to Data Science, Forensic, Graph Network.

Field(s) of study

- Big Data and Computer Security

<https://aims-senegal.org/>

07/10/2017 – 11/07/2019 – Foto, Dschang, Cameroon

MASTER'S DEGREE – University of Dschang

Field(s) of study

- Applied Mathematics

<https://www.univ-dschang.org/>

07/10/2014 – 11/07/2017 – Foto, Dschang, Cameroon

BACHELOR'S DEGREE – University of Dschang

Field(s) of study

- Mathematics and computer science

<https://www.univ-dschang.org/>

● LANGUAGE SKILLS

Mother tongue(s): **FRENCH**

Other language(s):

| | UNDERSTANDING | | SPEAKING | | WRITING |
|----------------|---------------|---------|-------------------|--------------------|---------|
| | Listening | Reading | Spoken production | Spoken interaction | |
| ENGLISH | B2 | B2 | B2 | B2 | B2 |

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● DIGITAL SKILLS

My Digital Skills

Programming languages (Python and R program) | HTML5/CSS, Javascript | Programming (C, Java, Python, OCaml, OpenGL) | Satellite data analysis and image classification (supervised and unsupervised) | Machine Learning Algorithms (Supervised & Unsupervised) | (AI) Computer Vision | Data Science: Artificial Intelligence, ML, NLP, Statistics, Data Mining, Regression, NN, Big Data | Git and Github | SQL (MySQL) | Data Science: Machine Learning, Data Analysis, Data Exploration, Data Wrangling, Data Visualization | Data extraction, Data preprocessing, Data visualization, Data cleaning | Microsoft Office Word Power Point Excel | Microsoft Excel | VS Code | Intermediate skills with reinforcement learning

● ONLINE TRAINING

Introduction to Data Science in Python issued by Coursera

Acquired skills: Python Programming, Numpy, Pandas, Data Cleansing.

<https://coursera.org/share/cf538e920a89986465bb15c66cd8bf06>

Neural Networks and Deep Learning issued by Coursera

Acquired skills: Deep Learning, Artificial Neural Network, Backpropagation, Python Programming, Neural Network Architecture.

<https://coursera.org/share/1e8fd27129af63e40d7dc7774d02204b>

Data Collection and Processing with Python issued by Coursera

<https://coursera.org/share/b22cb8ee3472c85994d9e1b5486bd08f>

Python Functions, Files, and Dictionaries issued by Coursera

<https://coursera.org/share/5d5f19d90be8f76b85dd4b4602baf389>