NGOUPEYOU TONDJI LIONEL

Personal Information

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Objective

Looking for a challenging prospect to get more learning opportunities in a reputed organization, where I will be able to utilize my knowledge and skills to achieve better results for the organization as well as to develop my career.

Education

September 2018– Nowadays — **MSc in Machine Intelligence**, *African Master in Machine Intelligence (AMMI-Rwanda)*, Kigali, Rwanda.

Main Courses: Programming, Algorithms and Data Structures Bootcamp, Foundations of Machine Learning, Foundations of Deep Learning, Practical Machine/Deep Learning tools, Pytorch/TensorFlow/Keras, , Bayesian Inference in Machine Learning, Machine Learning with Kernel Methods, Probabilistic Graphical Models, Reinforcement Learning, Advanced Course on Deep Learning, Optimization for Machine Learning, Convolutional Neural Networks for Visual Recognition, Modern Natural Language Processing, Learning and Understanding Audio Signal, Social Aspect in Big Data and Machine Learning, Advanced Topics in Machine Learning, Natural Language processing(NLP)

August 2016– February 2018 — **MSc in Mathematical Sciences** , *AIMS-Senegal*, Mbour, Senegal.

Main Courses: Machine Learning, Neurals Networks, Deep Learning, Recommender systems, Natural Language processing(NLP), Database, Big data, Statistics with R, Data Analysis, Numerical problem solving, Number Theory, Analytic Number Theory, Elliptic Curve, Quantum mechanics, Partial differential Equation (PDE), Ordinary differential Equation and dynamical systems (ODE), Functional Analysis

Thesis : Design and Implement a decision support tool for jobs seekers and recruiters using machine learning techniques (Published on Google scholar)

Grade : Distinction

Rank : First

2011–2016 **MSc in Mathematical Sciences**, *Universite de Yaounde I*, Yaounde, Cameroon.
Main Courses: Algebraic Geometry, Algebraic Codes, Cryptography, Categories Theory, Algebraic Curves, Quantum Mechanics, Logic and Universal Algebra, Lie Algebra, Partial Differential Equation (PDE), Non Local Analysis, Optimization Problems, Algebra, Numerical Analysis, Mathematical Modeling, Computer Sciences
Thesis : Primality Tests (AKS, Miller-Rabin and Solovay-Strassen)
Rank : Third

Work Experience and Internships

June–July **Leibniz Centre for Tropical Marine Research (ZMT)**, *Student Intern In Eco-*
2018 *logical modelling for investigating human-resource interactions in the tropics : Use case on Easter Island*, Fahrenheitstraße 6; 28359 Bremen, Germany.
Developing and implementing an Agent Based Model (ABM) to study the human-resource interactions of historical civilizations

May–Nov **African Digital Native (ADN)**, *Research Intern Machine Learning and Natural*
2017 *Language Processing*, Dakar, Senegal.
Developing and implementing some algorithms for Jobs Advertisement platform and implementing some machine learning algorithms for Recommender systems

Professional Qualification and Certifications

March 2018 **Version Control with Git**.
Coursera online course from Atlassian :
https://www.coursera.org/account/accomplishments/records/2M56FP3XV4HC

February **Deep Learning Specialization**.
2018 Coursera online course from Deeplearning.ai :
https://www.coursera.org/account/accomplishments/specialization/7JRVH7M9UJDT

October 2017 **Python Specialization**.
Coursera online course from Michigan University :
https://www.coursera.org/account/accomplishments/specialization/67X4DASSRZJC

September **Machine Learning Foundations: A Case Study Approach**.
2017 Coursera online course from University of Washington :
https://www.coursera.org/account/accomplishments/records/H8QRP6Z7GNK9

August 2017 **Machine Learning**.
Coursera online course from Stanford University :
https://www.coursera.org/account/accomplishments/records/JPW9B7ACBT7D

Leadership and Community service

LeaderShip.
2017 - 2018 Member of the Coursera Beta Tester Community
Member of Google Developers Community Groups (GDG-Kigali)
Member of The Facebook Developer Circles Community Senegal

2012 - 2015 General Secretary of the Nde association student group

Give Back Event.
Nov 2016 Storage and Recording of Aims-Senegal library book
Dec 2016 Cleaning and Working at Mbour nursery

Awards, Grants and Honours

2018–2019	Scholarship from Facebook and Google for the African Master in Machine Intelligence (AMMI - Rwanda)
2017-2018	Award from the International Youth Math Challenge (IYMC)
2017-2018	Atos IT World Challenge 2018, Chatbot and AI, top 10
2017-2018	Student Travel Award (ICTP-CIMPA School in Ivory Coast) Student Travel Award (CIMPA School in Morocco) Student Travel Award (Atelier PARIGP 2018 in France)
2016–2018	The Mastercard Foundation Scholarship for the Co-operative Master at African Institute for Mathematical Sciences (AIMS-Senegal)
2013 - 2015	Award excellence from the Cameroonian head of states

Personal Skills and Competences

Technical skills	Problem Solving, Optimization Problems, Mathematical Modelling, Machine Learning, Data Analysis, Numerical Analysis, PDE, ODE, Geometry
Computer skills	Python, Latex, Maple, Pari/GP, MATLAB/Simulink, Octave, Java, Freefem++, Django Framework, Jupyter Notebook, Microsoft Office, HTML5, CSS3, Android Studio, R Studio, C, Octave, Linux
Soft and Social skills	Willingness to learn, strong teamwork, presentation skills, capacity to work under pressure, determined to reach a goal in time, pleasure in dealing with people, innovative and open-minded, social, ability to work independently and to prioritize, excellent listener, critical thinking, sense of analysis, dynamic, passionate about mathematical research
Productivity and Projects Management skills	Agil method, versions control (Git, Bitbucket), productivity tools (Vim), Pycharm
Language skills	French (Fluent), English (Fluent)

Conference and Seminars

November–2018	**The History of Artificial Intelligence and an Overview of Deepmind**, *African Institute for Mathematical Sciences*, Kigali, Rwanda. Prof. Murray Shanahan, Senior research scientist at Deepmind and Professor of Cognitive Robotics at Imperial College London, UK
October–2018	**PDE models for interacting particles**, *African Institute for Mathematical Sciences*, Kigali, Rwanda. Dr. Franca Hoffmann, Von Karman instructor at California Institute of Technology, US
6th - 16th March, 2018	**Cimpa School on "Algèbre non associative. Aspects analytique, géométrique et applications"**, *Casablanca, Morocco*, Hassan II University.

5th - 9th February, 2018	**Winter-School on "Exploring Complex Systems using Computational Tools"**, *Mbour, Senegal*, AIMS-Senegal and the Leibniz Centre for Tropical Marine Research.
10th - 22th April, 2017	**ICTP-CIMPA School on "Algebraic Number Theory and applications especially in Cryptography"**, *Abidjan, Ivory Coast*, Felix Houphouet-Boigny University.

References

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