

Michael F. MBOUOPDA

PhD Student in Machine/Deep Learning

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I have been fascinated by artificial intelligence since I was just a little boy, I fell in love with the car KITT. I think that artificial intelligence is making the world better and being involved in that change makes my child's dream comes true

Work experience

- Oct 2019 – **Time Series Mining Researcher**, *Laboratory of Informatics, Modelling and Optimization of the Systems (LIMOS)*, Aubiere, France.
 - Sep 2022 ○ Topics: Time series classification, anomaly detection, forecasting, Uncertain data mining
- Oct 2019 – **Assistant Lecturer**, *University Clermont Auvergne*, Aubiere, France.
 - Sep 2022 ○ Courses: Information Systems - Graph Theory - Artificial Intelligence - Database Management System Implementation
- Apr 2019 – **Time Series Mining Junior Researcher**, *Laboratory of Informatics, Modelling and Optimization of the Systems (LIMOS)*, Aubiere, France.
 - Sep 2019 ○ Topics: Time series classification
- Jun 2017 – **Natural Language Processing Junior Researcher**, *Department of Computer Science - University of Yaounde 1*, Yaounde, Cameroon.
 - Sep 2018 ○ Topics: Named entity recognition for low-resource languages
- Jun 2016 – **Applied Researcher**, *Ibaas Labs*, Yaounde, Cameroon.
 - Sep 2019 ○ Topics: Knowledge graph, Information retrieval, Natural language processing, Android development

Education

- Oct 2019 – **PhD in computer science**, *Clermont Auvergne University*, Clermont-Ferrand, France.
 - Sep 2022 ○ Lab: Laboratory of Informatics, Modelling and Optimization of the Systems (LIMOS)
 - Subject: Uncertain time series classification
- Sep 2018 – **Master in computer science**, *Clermont Auvergne University*, Clermont-Ferrand, France.
 - Sep 2019 ○ Main courses: Machine learning/data mining, Operational research, Computational complexity, Semantic web
- Sep 2016 – **Master in computer science**, *Univeristy of Yaounde 1*, Yaounde, Cameroon.
 - Sep 2018 ○ Main courses: Business Intelligence, Software Engineering, Operating systems, Distributed systems, Computational complexity, Advanced database
- Sep 2012 – **Bachelor in computer science**, *University of Yaounde 1*, Yaounde, Cameroon.
 - Jun 2015 ○ Main courses: Algorithmic, Programming, Operating systems, Databases, Information systems

Online education

- Jul 2020 **Deep Learning Specialization**, *deeplearning.ai*, coursera.org.
- Jun 2020 **Research integrity in science**, *Bordeaux University*, fun-mooc.fr.
- Apr 2019 – **Reproducible Research: Methodological Principles for Transparent Science**, *Inria*, fun-mooc.fr.
- Jun 2019

Personal Projects

- Apr 2020 – **Taekwondo Kicks Prediction using Time Series of Poses**: A machine learning framework to accurately recognize taekwondo moves.
- Apr 2021

May 2021 – **MonPoulailleur**: An android application that allows chicken farmers to manage their business today and improve their profitability with the utmost simplicity.

Languages

French **Proficient**: I use the french language in my every day life and at school. However my mother language is Ghomala

English **Upper-intermediate**: can read and understand books and articles. can watch some movies without subtitles. Write and present papers at conferences. Need more practice to be fluent.

Award

Jan 2022 Best submission for the piezometric level forecasting challenge organized by Association EGC and BRGM

Skills

ML Scikit-learn, Keras, TensorFlow, Weka, Matplotlib, Pandas, Numpy, Transfer Learning

Programming Python, Java, C, C++

Cloud: GCP, AWS Lambda

Databases Firebase, Postgres, MySql, Oracle

Others: Git, Latex, Django, Flask, JQuery

Soft skills Autonomous, organized, curious, problem-solver, opened minded

Publications

M. F. Mbouopda. Uncertain time series classification. In *Proceedings of the Thirtieth International Joint Conference on Artificial Intelligence, IJCAI-21*, pages 4903–4904, 8 2021. Doctoral Consortium.

M. F. Mbouopda. Etude de la prédiction du niveau de la nappe phréatique à l'aide de modèles neuronaux convolutif, récurrent et résiduel. *Revue des Nouvelles Technologies de l'Information*, Extraction et Gestion des Connaissances, RNTI-E-38:313–320, 2022.

M. F. Mbouopda and P. Melatagia Yonta. Named entity recognition in low-resource languages using cross-lingual distributional word representation. *Revue Africaine de la Recherche en Informatique et Mathématiques Appliquées*, 33, 2020.

M. F. Mbouopda and E. Mephu Nguifo. Classification of Uncertain Time Series by Propagating Uncertainty in Shapelet Transform. In *ECML/PKDD Tutorial and Workshop on Uncertainty in Machine Learning*, Sept. 2020.

M. F. Mbouopda and E. Mephu Nguifo. Scalable and Accurate Subsequence Transform for Time Series Classification. In *Conférence sur l'Apprentissage automatique (CAp)*, 2021.

M. F. Mbouopda and E. M. Nguifo. Classification des séries temporelles incertaines par transformation shapelet. In *Conférence Nationale en Intelligence Artificielle (CNIA)*, pages 14–21. AFIA, 2020.

M. F. Mbouopda and E. M. Nguifo. Uncertain time series classification with shapelet transform. In *International Conference on Data Mining Workshops (ICDMW)*, pages 259–266. IEEE, 2020.

M. F. Mbouopda and P. M. Yonta. A word representation to improve named entity recognition in low-resource languages. In *International Conference on Social Networks Analysis, Management and Security (SNAMS)*, pages 333–337. IEEE, 2019.

Volunteerism

Conferences ECML-PKDD 2020, IJCAI 2020

Miners I am a co-animator for the Miners working group at the computer science laboratory LIMOS

Interesets

Taekwondo Black belt

Movies Ong Bak, Dragon Tiger Gate, Ip Man, Undisputed

Mangas Naruto, Dragon Ball, Baki, Hajime no Ippo

Games Splinter Cell, Call of Duty, Bullet Storm, DBZ Legend