

EXPERIENCE

Machine Learning Scientist, Prevision.io **Oct. 2021 – Present**

- Design and implementation of explainability methods for ML models
- Design of rigorous benchmarks for the evaluation of proposed approaches
- Implementation of data preparation techniques
- Creation of use-case execution pipelines
- Writing of technical reports
- Development and integration of new demonstrators and ready-to-use web applications

Conference reviewer, Peer-review conferences **2020 – Present**

- Reviewed 5 peer-review conference papers BDA, DSAA, ITAT, Complex Networks, JRI.

Teaching assistant, Université Clermont Auvergne **Sept. 2018 - Sept. 2021**

- Taught 7 courses with 60H/year including SQL, Information Systems, Java, Web databases, Bash programming, Statistics and Probability, Algorithmic to undergraduate students.

Research intern, LIMOS Université Clermont Auvergne **Apr. 2018 - Aug. 2018**

- Analyzed two real-world datasets respectively for physical activities recommendation and interaction between lifestyle activities and cognitive health of older adults.
- Worked on the development of a new clustering method. Published evidential clustering for categorical data at FUZZ-IEEE 2019 a few weeks after.

Software Engineer intern, SETEC INTERNATIONAL **May 2017 – Jul. 2017**

- Learned C# programming and Visual Studio.
- Developed a new user interface in C#.
- Fixed bugs.
- Added automated files generation in Excel format.

EDUCATION

Université Clermont Auvergne, Ph.D. in Computer Science and Machine Learning **2021**

- Worked on the development of new clustering methods for categorical data and applications in Health data analysis.
- Published 2 rank A and 1 rank C peer-reviewed papers on clustering.
- Collaborated with Institute Analgesia in France and the Simon Fraser University in Canada leading to 3 publications.
- Vulgarized thesis results in conferences (2 FUZZ-IEEE and EGC), seminars, laboratory meetings.
- Taught 180 hours of courses to undergraduate students.
- Tutored 1 research internship and 1 school project.
- Provided implementations in Python of the new clustering methods on Github.

Université Clermont Auvergne, Master of Science and Engineer's degrees **2018**

- Master's degree in computer science at ISIMA, Cumulative grade: **14/20**
- Engineer's degree in mathematics and modeling at Polytech Clermont-Ferrand, Cumulative grade: **15.5/20**.

TECHNICAL SKILLS

Python, Java, C++, C# , C

Tensorflow, Keras, Scikit-Learn, Statsmodels

Software engineering: OOP, UML, Git

SQL, JavaScript, HTML, CSS

Pandas, Numpy, Flask

Systems: Linux, Windows

CERTIFICATES

Specialization TensorFlow: Data and Deployment by deeplearning.ai, Coursera	Apr. 2020
Specialization Deep Learning by deeplearning.ai, Coursera	Nov. 2019
Specialization Advanced Data Science with IBM by IBM, Coursera	Sept. 2019
Introduction to the general data protection by the CNIL France.	Apr. 2019

PROJECTS

- **Ma distance de sécurité** **Mar. 2020**
 - Developed mobile and web applications for social distancing management during COVID19 by using Haversine distance.
 - Used Python (Flask), JavaScript, MySQL, Android Studio, Google Cloud App Engine for the development.
 - Opened the code source on Github.
- **PhiField** **May 2019**
 - Developed with two teammates an automated irrigation system based on AI.
 - Directed the AI algorithms modules development.
 - Received an award of 11 500 EUR among +500 projects.
 - Founded the start-up PhiField SARL.
- **Detecting election corruption in Africa using ML/DL** **Sept. 2019**
 - Trained machine learning and deep learning models to detect election corruption in Africa. The best model (LightGBM) achieved a ROC AUC of 0.85.

HONORS AND AWARDS

- Achieved first place over +260 candidates in the follow-up Data Science Olympics Competition.
- Received the audience award from the second edition of Niger's national entrepreneurship competition eTakara (etakara.ne) based on our innovative project PhiField.
- Received Ph.D. funding of 105 000 EUR in 2018 from the French national agency of research based on academic success.
- Received the first place of the Excellence Prize by Réseau des Étudiants Nigériens en France in 2018 based on academic success.

INTERESTS

Entrepreneurship, Coding, Data Science Competitions.