

Rachid ELMONTASSIR

Engineering student looking for a Ph.D. in Machine Learning
from October 2021

CONTACT



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EDUCATION

2018 - 2021



Engineering degree in computer science and applied mathematics, branch HPC & Big Data: Optimization, Data assimilation, Stochastic filtering, Statistics and Machine Learning (R + Python) and Java.

INP-ENSEEIH, Toulouse, France

2020 - 2021



Master 2 "Performance in Software, Media & Scientific Computing" : Deep Learning, Distributed Computing, Grid Computing, Cloud, Hadoop and Spark.

Paul Sabatier University, Toulouse, France

2016 - 2018



Classes préparatoires aux grandes écoles, branch Maths & Physics : Python, Algorithmics (bases), Maths et Physics.

CPGE Ibn Ghazi, Rabat, Morocco

EXPERIENCE

March - September 2021

Internship : Designing a hybrid Physics-AI approach for cloud cover nowcasting.

- Defining the Physical model in the form of partial differential equations (PDE).
- Designing the hybrid architecture by associating a U-Net model with the physical model.

CERFACS, Toulouse, France

Using : Python, Keras, PyTorch, Time schemes and PDE-NetGen (A code generator for PDEs)

June - July 2020

Internship : Adapting practicals of mathematical subjects (PDE, Optimization, Optimal Control, Data analysis) to remote work.

ENSEEIH, Toulouse, France

Using : Julia, Matlab, PCA, K-NN, Bayesian Classification and Optimization Methods

PROJECTS

November 2020 - March 2021

Drone-Humain Interaction (with SII) : Positioning of a rescue drone in front of a victim and discussion via a Chatbot (5 members' team).

Using : Python, TensorFlow and PyTorch

October 2020 - February 2021

AI-Challenge: Job descriptions classification with a fairness constraint (4 members' team).

Using : Python, TensorFlow, PyTorch and Transfer Learning.

January - May 2020

Hadoop : Distributed data management application, like the Hadoop framework (4 members' team).

Using : Java, Map-Reduce, RMI and Socket

LANGUAGES

- **French** : Advanced, **English** : Professional level, **Berber** : Native tongue, **Arabic** : Proficiency, **German** : Elementary

CERTIFICATS

2020



TensorFlow in Practice specialization: Python, NLP, RNN, CNN and Time series

coursera.org/verify/professional-cert/MK9JZ2JKC53V

2020



Machine Learning, Stanford: Matlab, Linear / Logistic Regression et Regularization

coursera.org/account/accomplishments/verify/LK2TVNG4LX6T