

# Rachid ELMONTASSIR

AI Ph.D. student at CERFACS

## 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 and 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 a 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 and 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 Sud-Ouest) :** Positioning of a rescue drone in front of a victim and discussion via a Chatbot.

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](https://coursera.org/verify/professional-cert/MK9JZ2JKC53V)

2020



**Machine Learning, Stanford: Matlab, Linear / Logistic Regression and Regularization**

[coursera.org/account/accomplishments/verify/LK2TVNG4LX6T](https://coursera.org/account/accomplishments/verify/LK2TVNG4LX6T)