Benjamin
DONNOT

65 avenue de Paris
92 320 Châtillon FRANCE
** +33 6 12 08 13 43*
[regular] benjamin.donnot @ gmail.com
www.linkedin.com/in/benjamindonnot/
github.com/BDonnot

Work Experience

2019-Now **Data Scientist**, *Paris*, RTE France
My missions include trying to apply state of the art "machine learning" algorithm to real time grid operations such as optimization of topologies or dynamic line rating.

2016-2017 **Assistant professor**, *Paris*, ENSAE (École Nationale de la Statistique et de l'Administration Économique) & ENPC (École Nationale des Ponts et Chaussées)
Assistant professor for the courses of "Introduction to R software", "Python for a Data Scientist" and following student in the case of a last year informatic project (ENSAE), and "Machine learning and application" (ENPC)

Janvier 2015 *(6 months)* ***Data Scientist* Intern**, *RTE France*, Versailles, France
Development and study (in c++ and R) of machine learning algorithm (mainly deep learning and reinforcement learning) in order to better operate the french power grid.

Février 2015 *(7 months)* **Consultant for l'ODJ**, *Observatoire Des Jeux (ODJ)*, Paris, France
Mission obtained through ENSAE J*unior* Études. The objective was to build and study *a priori*, different profil of players in oder to predict which one are possibly addicted.

Février 2014 *(6 months)* **Stagiaire *Data Scientist***, *Amadeus IT group*, Sophia-Antipolis, France
Application of machine learning algorithm (classification, clustering, prediction) for predicting the flow of passengers in any airport. Usage of *R* and *Python*

Mars 2013 *(3 months)* **Consultant**, *Jouve*, Paris
Mission obtained through ENSAE J*unior* Études : detection et rationalization of bids searching, *web-scraping*, supervised clustering of more than $2,5$ millions of bids. This study was made using *Python*.

Education

2015-2019 **PhD in Machine Learning**, *CIFRE agreement (Industrial agreement of learning/training by research) between LRI lab (INRIA) and RTE France (French Transmission System Operator)*, Paris Area, France
PhD entitled "Deep learning methods for predicting flows in power grids : novel architectures and algorithms" available at https://theses.hal.science/tel-02045873.

2011-2015 **Student in Data Science, speciality *Machine Learning***, *ENSAE (Paris Graduate School of Economics, Statistics and Finance), Top French engineer school in statistics*, Malakoff, Paris Area, France
Main classes : data mining, machine learning, bayesian statistic, computer (C++, Python, R). Full-year internship in 2013-2014

2008-2011 **CPGE**, *Henri Poincaré Highschool*, Nancy,France, Two or Three-years intensive program in mathematics and physics preparing for the national competitive exams for entry to engineering schools.

Computer skills

Lead developer **grid2op, lightsim2grid, l2rpn-baselines**
And such packages all towards

Languages **Objects Oriented (*C++* -advanced knowledge) & Functionnal (*OCaml* -knowledge)**

Statistical ***Python* (Tensorflow, Scikit-Learn, Pandas, Boost-Python) -advanced knowledge & *R* (Rcpp, data.table)-advanced knowledge**

Others **LaTeX; *Pack Office*(VBA, Excel) & SQL -knowledge**

Extra curricular activities

2018-now **Co organizer of l2rpn competitions**
This serie of competitions aims at democratizing the topic of real time grid operations. By proposing a problem related sequential decision making in power system we hope to help the decarbonization of the powergrid.

Sports, *swimming ≈, biking, running (marathon) and occasional hiking and skiing (during vacation)*