Antoine Coppin

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Previous Employment

Paris Fire Brigade **Paris**
Volunteer firefighter *November 2016 - now*
volunteer Emergency Medical Technician, now mobilised fighting against CoVid

Freelance **Remote**
Freelance data scientist *November 2018 - now*
- I sold an optimisation of a Markowitz model to optimize portfolio on a cloud-hosted VM.
- I taught chatbots design in Python with Rasa.
- I developed a human resources management software, Paris Fire Brigade.

Auspex **London**
Data scientist *October 2019 - August 2020*
I updated an electoral prediction model using Bayesian theory, Scraping with Selenium, pushed and visualized with Dash.

Queen Mary University **London**
Research intern in Natural Language Processing *May-August 2018*
Research on Q&A issues on SQuAD2.0 dataset : what to do when no answer exists. Improved former algorithm accuracy by 10% using semantic parsing, Stanford CoreNLP, recurrent neural nets, analysis of embedding. I tested it with Rasa.

Swiper **Paris**
Data scientist *March-July 2017*
I designed clustering and recommendation algorithms in Python with GraphLab library for market segmentation: a matrix factorisation system based on side features and similarity recommendation.

Direction Générale de l'Armement : Information Literacy **Bruz**
Software Developer *May 2016 – August 2016*
Interfacing with each others peripherals that would lead antennas to one or more directions, such as boats, vehicles or even planes. This was designed to achieve tests on them. Used VB.Net on Visual Studio for more than 2000 lines of code. I had wrote a report on the military-industrial complex in France and an article on interfacing.

Education

Paris-Dauphine University   **Paris**
M.S.(Res) in Business Informatics : Artificial Intelligence   *Sept 2016 – March 2018*
Advanced teaching in Artificial Intelligence, my major were Machine Learning and my minor Distributed systems. It implied lab research and master thesis.

Paris-Dauphine University   **Paris**
B.S. in Business Informatics with honours   *September 2012 – June 2016*
Comprehensive but technical degree of Computer Sciences applied to corporations and decision making. It is taught threw both projects and theoretical courses in Java and C under Unix system and deep mathematics knowledge in Linear Algebra and Statistics.

Notable Projects and articles...

- **Kaggle comeptition :** *'Toxic comment classification'*
Project using linear classifier to identify and classify toxic online comments. Using Python with Keras and Tensorflow.

- **Article :** *'Teach your chatbot to shut it up'*
I wrote about the results of my research at Queen Mary University on reading comprehension datasets. I show there how one can improve one's algorithm to know when one can't guess the answer to a question.

- **Competition :** *'Lending club dataset'*
I predicted loan grades with a neural network and beat the accuracy of the repository I forked on by using my own loss function developed in tensorflow.

Technical and Personal skills

- **Programming Languages:** Proficient in: R (xts, RiskPortfolios, PerformanceAnalytics, quantmod, pracma, lubridate), Python (TensorFlow, Keras, NumPy, SciPy, Dash, Bokeh, Flask), VB.Net, C, Java , Matlab, LaTeX, VBA.

- **Databases:** MySQL, PostgreSQL, MongoDB

- **Cloud:** GCP but also Azure

- **Distributed:** Cassandra

- **Operating systems:** Windows 10, Linux (12.04, 16.04), Debian, Buscador

- **Languages Skills:** Fluent in French, English, Spanish. Notions of Italian, German and Arabic.

Interests and extra-curricular activity

- I an avid runner, having competed in 3K, 10K runs and even a marathon. I was the athletic club leader in my University.

- I love teaching. I pass on my love for computer science to students in France, United Kingdom, Luxembourg and Spain. I write articles on Medium to make data science concepts accessible