

# Maël FABIEN



**Data Scientist**  
(22 years old)

Nationality: France, Luxembourg

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## Social



<https://maelfabien.github.io/>



<https://github.com/maelfabien>



<https://www.linkedin.com/in/mael-fabien/>

Medium

<https://medium.com/@mael.fabien>

## Language

- French (Mother Tongue)
- English (C2)
- German (B2)

## Interests

- Statistics
- Machine Learning
- Deep Learning
- Actuarial Science
- Reinforcement
- Data Visualization
- Design/Web
- Sports

## Education

Bachelor of Science  
Economics  
HEC Lausanne (16')



Economics, Statistics,  
Financial Mathematics

Mater of Science  
Actuarial Science  
HEC Lausanne (18')



Statistics, Mathematics,  
Stochastic Processes

Top 5%

Specialized Master  
Big Data & Data Science  
Telecom ParisTech (19')



Big Data, Machine  
Learning, Deep Learning

Top 5%

## Experience



**03.2018 - Present: Data Scientist Intern (Part time)**

Part-time position. Creating a Semantic Similarity Search Engine in Python.  
*Pre-processing, Universal sentence embedding, cosine similarity...*



**02.2018 - Present: Machine Learning Instructor**

Machine Learning Instructor for VIVADATA Bootcamp. Gave lessons on several ML concepts, created course supports, contributed to bootcamp's blog.



**09.2018 - Present : Deep Learning Research Project**

Research projet for the French employment center on multimodal emotion recognition for Text, Sound and Video. In charge of computer vision.

*Python, NLTK, PyAudio, Keras, Tensorflow.js*



**02.2018 - 08.2018 : Non-Life Actuary Intern, Vaudoise**

Redesign of a private Accident Insurance product. Statistical analysis, anomaly detection, product pricing (MLE, robustness tests, profit testing, simulations).

*R, VBA, Tableau*



**09.2016 - 03.2018 : Student Teaching Assistant**

Student Teaching Assistant for the 3rd year Bachelor course of Corporate Finance and Public Finance. 40% position on the side of my studies.



**2016 - 2018 : Entrepreneurial Projects**

Jury Prize winner of the Entrepreneurial Contest Start Lausanne after a 6 months competition among 65 startups, 5'000.- prize.

## Recent Projects

- Created a data science blog : <https://maelfabien.github.io/>
- Data Engineering project (AWS EC2, Cassandra, Scala, Spark...)
- Published on Towards Data Science : <https://bit.ly/2NiNaLy>
- Deep Learning Facial Emotion Recognition and Landmarks Detection
- GANs and Autoencoders, Deep Learning Image Enhancement
- NLP / Topic modeling from a comment data base
- Predicting a container's dwell time for cargo transportation optimization
- A geolocation ML algorithm from a triangular signal strength (RSSI)
- Several Kaggle Competitions (EarthQuake, Titanic, Forest Type...)

## Stack

Daily user :

- Python (Pycharm, Jupyter)
- Libraries (Sklearn, statsmodel, Keras, Tensorflow..)

Frequent user :

- R (RStudio), Scala (Zeppelin), Matlab
- SQL (Postgre, MySQL), HTML, CSS
- Elasticsearch, Kibana
- Cloud : AWS (EMR, EC2..), Google Cloud Platform

Used in several projects :

- Hadoop, Spark
- Cassandra, MongoDB, Neo4j, Hive
- Tableau