Maël FABIEN

Data Scientist
(23 y.o)

Nationality: France, Luxemburg

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Social

BLOG *https://maelfabien.github.io/*

https://github.com/maelfabien

*https://www.linkedin.com/in/
mael-fabien/*

Stack

Daily user :
- Python
- ML libraries (sk-learn, NLTK,
  Scipy, OpenCV, Librosa…)
- DL: Tensorflow, PyTorch

Frequent user :
- Spark via PySpark and Scala
- SQL (Postgre, MySQL)
- Cloud : AWS, Google Cloud
- HTML, CSS, Flask

Used in several projects :
- Hadoop, Hive
- Cassandra, MongoDB, Neo4j
- ElasticSearch, Kibana
- R (RStudio), Matlab

Languages

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

Interests

- ML and Data Science
- Sports (Fitness, hiking)
- Did a 4 months trip end of 2019
  to Senegal, Cambodia,
  Vietnam, New Zealand, French
  Polynesia, Easter Island,
  Santiago

Education

**2020 — Present : Ph.D. in Speech processing
EPFL and Idiap research institute,** Martigny (CH)

Ph.D. at Idiap research lab as an EPFL Student on speech processing and graph
theory for ROXANNE European project. 23 partners in the project.

**2018 — 2020 : Specialized Master in Big Data & Data Science
Telecom Paris,** Paris (FR)

Data Engineering, Machine Learning, Deep Learning, NLP, Computer Vision.

**2016 — 2018 : Master of Science in Actuarial Science
University of Lausanne,** Lausanne (CH)

Statistics, Mathematics, Stochastic Processes.

**2013 — 2016 : Bachelor of Science in Economics
University of Lausanne,** Lausanne (CH)

Economics, Statistics, Financial Mathematics.

**2010 — 2013 : Scientific Baccalaureate, Mathematics Option
Lycée of Ferney-Voltaire,** Ferney-Voltaire (FR)

English International Option, GCSEs and A Levels passed.

Experience

11.2019 - 12.2019 : NLP Consultant, Orange, Senegal

Created a chatbot to reduce the rate of human answers using weighted
Word2Vec and LSTM intent classifier. Gave an NLP lecture in front of data teams.

07.2019 - 11.2019 : Data Scientist Intern, Paris

Algorithm engineering to automatically understand what a user wants to
extract from a text by example. Used tree-based structures and genetic
algorithms. Worked with back-end engineers. Algorithm currently in the app.

Python, Algorithm optimisation, Natural Language Processing

03.2019 - 07.2019 : NLP Data Scientist Intern, Remote

Designed and implemented a Semantic Similarity Search Engine for a
messaging service. Implemented Bert for next sentence prediction.

Python, Search Engine, Hierarchical Embedding, BERT, Transformers

09.2018 - 06.2019 : Deep Learning Research Project, Paris

Research project for the French employment center on multimodal emotion
recognition for Text, Sound and Video. Built a web app on top with Flask.

Python, NLTK, Keras, Tensorflow, Flask, HTML, CSS   ★ Star 146   ⑂ Fork 71

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

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

R, VBA, Tableau

Entrepreneurship

MedikHub   **2019: Hackathon Winner**

Winner of the 2019 « Hubs as a service » Hackathon. Developed a mobile medical service for rural areas, a booking platform and a pre-diagnosis tool using NLP. Won a 5'000 euros prize.

Wanago   **2016 - 2018 : Founder of Wanago**

Crowdfunding platform for van acquisition. Jury Prize winner of the Entrepreneurial Contest Start Lausanne after a 6 months competition among 65 startups, with 5'000 euros prize, several vehicles financed.

Writing

09.2018 - Now : Blog Writer

I started writing a data science blog in which I share articles (over 150 so far) and tutorials on Statistics, Machine Learning, Deep Learning, Reinforcement Learning, Data Engineering… and detailed projects from scratch. Blog has been seen by over 60'000 persons.

https://maelfabien.github.io/.

Stat4decision   **09.2019 - Now : AI Writer**

Contributing to Stat4Decision's blog in French.

Towards Data Science   **08.2019 - Now : Editorial Associate**

Editorial associate role at TDS. Working on my free time on AI articles review and content creation. Been awarded the « Top AI Writer » badge for my contribution to the platform.

EXPLORIUM   **03.2019 - Now : AI Writer**

Contributing to Explorium's blog, a Data Science platform startup in Israel.

Talks

12.2019 - Natural Language Processing , Dakar

Gave a 4 hours introduction to NLP (Similarity, Classification, LSTM, Sequence) at Orange.

04.2019 - Entrepreneurial experience, Lausanne

Shared my story and how entrepreneurship helped me at Start Lausanne contest.

Teaching

Stat4decision   **09.2019 - Now : Data Science Instructor**

Data Science Instructor for Stat4Decision in the banking industry. *Average grade received for intervention: 9/10.*

VIVADATA   **02.2019 - Now : Machine Learning Instructor**

Machine Learning Instructor for VIVADATA Bootcamp. Created course supports and gave over 35 lectures on Stats, ML, DL and Data engineering in *Paris* and *Dakar*.

Unil   **09.2016 - 03.2018 : Student Teaching Assistant**

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

Recent Projects

Open Machine Learning Tutorials

Published Machine learning tutorials on GitHub (NLP, Computer Vision, Reinforcement learning)

https://github.com/maelfabien/Machine_Learning_Tutorials

Stars 382

Voice Gender Detection

Detecting gender based on voice records. I trained a GMM on MFCC features and deployed it on a web application.

https://github.com/maelfabien/VoiceGenderDetection

Mutli-purpose Data Science App

Developed a multi-purpose application gathering pre-trained NLP, Computer Vision and generative models as well as self-trained ones.

https://github.com/maelfabien/DataScienceApp

fsText : Few Shot Text Classification

Created fsText, a few-shot learning text classification library on GitHub, using pre-trained embeddings and siamese networks.

https://github.com/fsText-suite/fsText

What language is this? Language Recognition

Built a Language Recognition web app using Markov Chains and a web scraper for Wikipedia.

http://maelfabien.github.io/machinelearning/HMM_3

Data Engineering Project

Processing large amount of data (GDELT database) using AWS EC2, Cassandra and Spark.

https://github.com/maelfabien/Cassandra-GDELT-Queries