Maël FABIEN



Data Scientist (23 years old)

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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) (Bilingual Scientific Baccalaureate)
- German (B2)

Interests

- ML and Data Science
- Sports (Fitness, hiking)
- Travel (South East Asia, New Zealand, South America)

Education

Bachelor of Science

Economics HEC Lausanne



Economics, Statistics, Financial Mathematics

Master of Science

Actuarial Science HEC Lausanne



Statistics, Mathematics, Stochastic Processes

Specialized Master

Big Data & Data Science Telecom Paris



Big Data, Machine Learning, Deep Learning, NLP, Computer Vision

2013 - 2016

2016 - 2018

2018 - 2020

Experience

orange[®]

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

Veamly

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

pôle emploi

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



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.

Teaching

Stat4decision 09.2019 - Now : Data Science Instructor

Data Science Instructor for Stat4Decision in the banking industry. Average grade received: 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.



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.

Writing

Stat4decision 09.2019 - Now : Al Writer

Contributing to Stat4Decision's blog in French.



08.2019 - Now: Editorial Associate

Editorial associate role at TDS. Working part-time on Al articles review and content creation.



EXPLORIUM 03.2019 - Now: Al Writer

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

https://www.explorium.ai/blog/whos-the-painter/, https://www.explorium.ai/blog/interpretabilityand-explainability-part-1/



@ 09.2018 - Now : Blog Writer

I started writing a data science blog in which I share articles (over 100 so far) and tutorials on Statistics, Machine Learning, Deep Learning, Reinforcement Learning, Data Engineering... and detailed projects from scratch. https:// maelfabien.github.io/. I share some of my articles on Medium and earned earlier this year the « Top Al writer » badge.

Technical Stack



















Daily user:

- Python (Pycharm, Jupyter, Sublime Text...)
- Machine Learning libraries: Sk-learn, NLTK, Scipy, OpenCV
- Deep Learning frameworks: Keras, Tensorflow, PyTorch

Frequent user:

- Spark (PySpark, Scala) R (RStudio), Matlab
- SQL (Postgre, MySQL)
- Cloud: AWS (EMR, EC2..), Google Cloud Platform
- HTML, CSS, Flask

Used in several projects:

- Hadoop
- Cassandra, MongoDB, Neo4j
- Hive
- ElasticSearch, Kibana

Talks

12.2019 - Natural Language Processing

Gave a 4 hours introduction to NLP (Similarity, Classification, Generation, QA, LSTM, Seq2Seq) at Orange Senegal.

04.2019 - Entrepreneurial experience in data

I shared my story and how entrepreneurship helps me on a daily basis to become more efficient. Start Lausanne contest 2019.

Recent Projects

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

Language Generation Model

Created a language generation model using Tensorflow. I trained the model on my own articles.

https://towardsdatascience.com/i-trained-anetwork-to-speak-like-me-9552c16e2396

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

GANs for face generation

Built a GAN for face generation using Facial Emotion Recognition 2013 database.

Data Engineering Project

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

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

Open Machine Learning Tutorials

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

https://github.com/maelfabien/ Machine Learning Tutorials



