Maël FABIEN



Data Scientist (22 years old)

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Education

Bachelor of Science

Economics HEC Lausanne



Economics, Statistics, Financial Mathematics

Mater 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

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, running, hiking)
- Travel (South East Asia, New Zealand, South America)

Experience

anasen

07.2019 - Now: Data Scientist Intern, Paris

Created innovative algorithms for automated text transformation understanding. My code is integrated in the application. Worked with backend and front-end engineers, R&D team and collected end-users feedbacks.

Python, Algorithm optimisation, Natural Language Processing

Veamly

03.2019 - 07.2019: NLP Data Scientist Intern, Remote

Designed and implemented a Semantic Similarity Search Engine in Python for a messaging service that groups all user's messages in a single feed.

Python, Search Engine, Hierarchical Embedding, Sentence Embedding

09.2018 - 06.2019 : Deep Learning Research Project, Paris pôle emploi

Research projet 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



vaudoise

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.



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

Machine Learning Instructor for Stats4Decision. I provide 3 days intensive trainings « Python for Data Science » in the banking industry.

VIVADATA 02.2019 - Now : Machine Learning Instructor

Machine Learning Instructor for VIVADATA Bootcamp. Created course supports and gave over 35 lessons 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 course of Corporate Finance and Public Finance, 40% position on the 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/interpretability-and-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, Spcipy, OpenCV
- Deep Learning frameworks: Keras, Tensorflow, PyTorch

Frequent user:

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

Used in several projects:

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

Recent Projects

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

Character-level LSTM for genre detection

Created and trained character-level LSTM networks for genre detection from first names with over 90% accuracy.

Language Generation Model

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

https://towardsdatascience.com/i-trained-a-network-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 (fer2013 on Kaggle)

Face Detection using HoG and CNNs

Implemented face detection algorithms and compared several approaches relying on DL or not

https://towardsdatascience.com/a-guide-to-face-detection-in-python-3eab0f6b9fc1

Data Engineering Project

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

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

Fraud Detection

Xente Fraud Detection competition (banking transactions) from Zindi platform.

Open Machine Learning Tutorials

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

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

