

CLÉMENCE LANFRANCHI

Master's student in Data Science

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Zurich, Switzerland



EDUCATION

MSc Data Science

ETH Zurich

2020 - 2022

Zurich, Switzerland

Courses in Machine Learning, Big Data, Algorithms and Statistics.
Other relevant courses in NLP, Reinforcement Learning and Quantum Computing.

BSc & MSc Computer Science

Ecole polytechnique, IP Paris

2017 - 2020

Paris-Saclay, France

One of France's most prominent universities for science.
CGPA: 3.93/4.0

Classes Prépa MPSI/MP*

Lycée Louis le Grand

2015-2017

Paris, France

Selective post-secondary undergraduate program in math and physics leading up to competitive entrance exams to the "Grandes Ecoles".

EXPERIENCE

Research Internship in Computer Science

Sorbonne Université

April 2020 - August 2020

Paris, France

- Worked in the Laboratory in Medical Informatics in collaboration with the Hospitals of Paris (AP-HP).
- Designed a new algorithm to aid in the detection of Lynch syndrome using neural networks and machine learning techniques as well as image analysis.

Building Physics and Acoustics Internship

Möhler + Partner Ingenieure

June 2019 - September 2019

Munich, Germany

- Consultant in emission control.
- Developed a Python program to evaluate light nuisances of solar panels.

Military Officer

Compagnie de Gendarmerie

September 2017 - March 2018

Bar-sur-Aube, France

- Learned the basics of military and command training.
- Led a project to reinforce the links between the population and the police officers in cooperation with mayors of 50 towns and regional prefects.

ACADEMIC ACHIEVEMENTS

- Received the "Research Internship Award" from Ecole polytechnique for my work on Lynch syndrome detection at Sorbonne Université.
- Was awarded with the **ETH-D Scholarship** based on excellent academic achievements.
- Ranked 30th out of 550 students on graduation at Ecole polytechnique.

PROJECTS

Fraud Detection using Graph Neural Networks

- Worked on a 200-hour project in collaboration with DS3Lab of ETH and Ebay using real world data of user behaviors.
- Developed a model to process graph-structured data using heterogeneous and dynamic graphs.
- Submitted a paper to KDD 2022 conference.

AI-Judge for the US Courts of Appeal

- Corpus of 30,000 legal briefs from all of the US Courts of Appeal.
- Applied state-of-the-art NLP techniques such as Transformers to predict the outcome of the appeal process.

Similar Patient Detection in the context of Traumabase with Capgemini

- Real world database of 20,000 patients covering 280 variables of pre-hospital data.
- Worked on missing value imputation and developed clustering algorithms aiming at providing relevant clinical information given the data of a new patient.

TECHNICAL SKILLS

Python, R, SQL, Java

Pandas, Scikit-Learn, Pytorch, Tensorflow

LaTeX, Jupyter Notebook, Git

Microsoft Office, Google Office

LANGUAGES

French Native speaker

English Fluent, TOEIC 2019: 985/990
TOEFL 2019: 115/120

German Good working level (B2)

OTHER ACTIVITIES

Student Representative

In close contact with the military staff of Ecole polytechnique, I was responsible for the cohesion of the 28 students within my sports section and the organization of various events.