

LOUIS STEFANUTO

Data Scientist Consultant @ Capgemini Invent | Polytechnique - Mines Paris

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🌐 LouisStefanuto

🌐 louis-stefanuto

🗣️ Learn more on my personal website

EDUCATION

Mines Paris

📍 Mines, Paris

📅 2022-2023

Double degree "Ingénieur civil" as Polytechnique's end-of-program year.
Specialization Digital Engineering of Complex Systems.
Focus on Machine Learning and its industrial applications.

Ecole Polytechnique

📍 I'X, Palaiseau

📅 2019-2023

Master level program "Ingénieur polytechnicien" (X19).
3 years on campus then 4th year at Mines Paris for specialization.
Majoring in Mechanics and in Machine Learning.

Classes Préparatoires

📍 Lycée S^{te} Geneviève, Versailles

📅 2017-2019

A two-year intensive university-level preparation in Maths, Physics and Chemistry to prepare for nationwide competitive exams (PCSI/PC*).

EXPERIENCE

Data Scientist Consultant

📍 Capgemini Invent, Issy

📅 10/2023 – Present

Permanent Contract: Consulting on Data/AI for clients.

- Public Sector Mission: Detecting narcotics in postal flows through Computer Vision.

End-of-studies Internship:

- Mission 1: Deployment of a satellite image analysis model for a public sector client. ML engineering. Python package development.
- Mission 2: Explainability of multi-modal models in Computer Vision.

Computer Vision research intern

📍 Poly Montréal LM2, Canada

📅 04/2022 – 08/2022

Mission: Accelerate fluid mechanics calculations by coupling differential equations and Deep Learning

- Physics-informed Neural Networks (PiNNs)
- Computer Vision: 3D tracking, image/video processing, CNN (TensorFlow)

Data Analyst Intern

📍 Thales, Issy

📅 06/2021 – 08/2021

Mission: Simulate the operational capabilities of the next-gen fighter.

- JAVA development within the DEVOPS team of the Combat Cloud Laboratory
- Quantitative data analysis

Platoon Leader - French Army

📍 St-Cyr Coëtquidan, RSMA Martinique

📅 09/2019 – 04/2020

Leadership experience in a regiment providing military and professional training to unemployed young adults in Martinique.

- Supervision and coordination of a section of 30 volunteers during my 1st year at Ecole Polytechnique.
- Advanced exercise of leadership and management skills.

CERTIFICATIONS

🏆 **Azure** - Certified DP-100
Cloud Azure Data Scientist Associate.

🏆 **Datascientest.com** Certifications
Deep Learning with Tensorflow / Keras
RNN, CNN, Dense Neural Networks ...

🏆 **Coursera** - ML Specialization, Advanced
Techniques in Tensorflow, Bash.

SOME PROJECTS

Regression on knowledge graphs - 2023

Three-month Kaggle challenge. Prediction of the origin of neutrinos based on measurements from a particle detector.
Graph Convolutional NN, Torch Geometric

Weakly Supervised Learning - 2023

Prediction of a genetic mutation from histopathological slides.

Attention-based Deep Multi-Instance Learning

Cerebral Aneurysm Segmentation - 2022

Team-based segmentation challenge on a highly limited dataset, ~ 100 MRI scans.
Data Augmentation, UNet3D

Graph and NLP Deep Learning - 2021

Prediction of the H-index of scientists from a publication dataset.

Graph & Text Embedding (Gensim, NetworkX)

Participation in AI Hackathons / Kaggle

TECH

Python

Java

Shell

Git

Conda

Argo Workflows

Docker

Tensorflow + Keras

PyTorch

Scikit-learn

Pandas

SQL (bases)

LANGUAGES

French (Native)

English (Full professional proficiency,
TOEFL iBT : 101/120)

German (Intermediate, Goethe B1)

PASSIONS

- Handball: + 12 years in competition
- Running : Marathon, trail running
- Music: Composition, recording.