

LOVICHİ Louis-Marie

Paris, FRANCE

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EDUCATION

MSc Probability and Finance (ex DEA El Karoui) (Sorbonne University, Paris) <i>Numerical Probability – Stochastic Modelling of Derivatives in Traditional and Digital Finance – Stochastic Control – Financial Markets and Financial Theory.</i>	2023 – 2024
MSc MVA Additional Courses (Université Paris-Saclay) <i>Machine Learning for Time Series – Convex Optimization and Applications in Machine Learning.</i>	2023 – 2024
Engineer's Degree at École Polytechnique (X2019) (Palaiseau) <i>Statistics – Modeling Random Phenomena – Optimization and Control – Machine Learning – Algorithm Design and Analysis – Algorithms for Data Analysis – Object-oriented Programming.</i>	2019 – 2023
Engineer's Degree (<i>Data Science</i> MSc program) at ISAE-Supaero (Toulouse) <i>Statistical learning – Supervised and unsupervised learning algorithms – Deep learning – Reinforcement learning – Stochastic optimization and evolutionary algorithms – Big Data tools.</i>	2022 – 2023
MSc in Operations Research (Université Paul Sabatier, Toulouse) <i>Deterministic Global Optimization – Mathematical Optimization for Machine Learning – Advanced Combinatorial Optimization.</i>	2022 – 2023
Preparatory Class [Bachelor's Degree] (CPGE : MPSI-MP*) at Lycée Fabert (Metz) <i>An intensive program in Mathematics, Computer Science and Physics. Admitted to X and ENS Ulm.</i>	2016 – 2019

WORK EXPERIENCE

Research Intern (Winamax, Paris) <i>I designed models to estimate the outcome probabilities of sport events based on machine learning algorithms and time series analysis (PARX, EWMA). I then developped a Python microservice using FastAPI and implemented two Streamlit applications for sports events odds models.</i>	Apr 2023 – September 2023
Teaching Assistant (Lycée Pierre de Fermat, Toulouse) <i>I conducted weekly oral examinations in Mathematics for undergraduate students (CPGE).</i>	Sep 2022 – Mar 2023
Data Scientist Intern (Berlin Brands Group, Berlin) <i>As part of the Pricing and Forecasting team, I analyzed the company's 4,000 products available for sale on various European marketplaces and developed sales forecasting and price elasticity estimation models implemented in Python. These models are updated daily on PowerBI dashboards to support decision-making for category managers.</i>	Jun 2021 – Sep 2021
Officer (Paris Fire Brigade (BSPP), Paris) <i>I was fully trained in emergency first aid and served as the chief on a first aid vehicle, responsible for a two-firefighter crew.</i>	Oct 2019 – Apr 2020

PROJECTS

Space objects maneuver detection <i>1st place in a 3-day hackathon with a group of 4. We reconstructed the signals with a Gaussian Process based on a combination of two base kernels and employed a Temporal Convolutional Network (TCN) using Pytorch library to achieve a 90 % accuracy.</i>	March 2023
Reinforcement learning for optimal control of air conditioning system <i>An industrial supplied a black-box FMU for MATLAB to simulate an air flow system's behavior. We developed a Python interface and applied DDPG and SAC deep reinforcement learning algorithms to control the valve with a current command.</i>	Oct 2022 – March 2023

LANGUAGES

French (Native) – **German** (Proficient [C2]) – **English** (Advanced [C1]) – **Luxembourgish** (Advanced)

INTEREST AND HOBBIES

Volunteering	I served as a young volunteer fireman in my hometown from 2012 to 2017.
Track and field	1500m: 4'18" – 3000m : 9'24" – 10km: 34'47" – Marathon: 2h55.
Skydiving	Former president of skydiving activities at X – 365 jumps since 2014.
Music	I played the trumpet for 9 years in orchestras and in a musical.