

MATTHIEU OLEKHNOVITCH

STUDENT AT ECOLE POLYTECHNIQUE & ENSAE

CONTACT

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Paris, France

SKILLS

- Python - Java - JS - C++
- Pytorch - Keras - Sklearn
- Dev Web (React, Django, php)
- SQL, Redis, DataBricks

LANGUAGES

French - Native
English - C1 or above (107/120 TOEFL)
German - B2
Russian - A2

PROJECTS

IPPMED Hackathon - Lung Cancer detection - 2023

Team research project on computer vision. Developed and trained deep learning models for tumor cells detection. Computation realised on Telecom Paris supercomputer (3.5Pflops/s)

LLM HACK - Paris 2024

Developped an autonomous agent that can explore the web to find accurate data, pack it and serve it with a personalized API. Worked with tutors from Mistral AI and HuggingFace

Digital Services (h)Acked - Brussels 2024

Developped a RAG architecture based on LLMs to serve API documentation from scrapped data. Computed researches on french HPC 'Jean Zay'

Variational Auto-Encoder-based Auto Augmentation: Enhancing exploratory latent space modeling

Paper under review at ICLR2025

EDUCATION

ÉCOLE NATIONALE DE STATISTIQUE ET D'ADMINISTRATION ÉCONOMIQUE(PARIS, FRANCE) 2024 - Present

Diplôme d'ingénieur (Master of Applied Mathematics) - **Finance, risk, data**

Coursework include : Statistical learning, Risk Management, Machine Learning, Stochastic calculus, Pricing of financial derivatives, Algorithmic Trading, Portfolio Management

ECOLE POLYTECHNIQUE (PALAISEAU, FRANCE) 2021 - Present

Diplôme d'ingénieur (Master of Advanced engineering)

Majoring in Computer Science - GPA 3.53/4

Coursework include : Foundations of Machine learning, Machine and Deep Learning, Database Management Systems, Data Visualization

LYCEE PASTEUR (NEUILLY, FRANCE) 2019 - 2021

CPGE - Preparatory classes

Majoring in Advanced Engineering and Science - GPA 4.0/4

Coursework include : Mathematics, Physics, Chemistry, Computer Science

WORK EXPERIENCE

UNIVERSITY OF LUXEMBOURG (LUXEMBOURG)

AI Research Intern - Security and Trust - SERVAl Team Apr. 2024 - Sep. 2024

Specialized in Auto Augmentation Learning techniques to enhance time series classification and forecasting metrics. Developed an advanced iteration of the AutoAugment algorithm for large-scale and complex data augmentation.

Recently authored a paper on time series auto augmentation, currently under review at ICLR.

WORLDLINE (LYON, FRANCE)

Jun. 2023 - Sep. 2023

AI Researcher Intern - LABS Department

Spearheaded research on AI-driven code reviewing for proactive issueforecasting in large-scale programming projects. Devised and executed comprehensive analysis processes to optimize project outcomes and data retrieval.

BRIGADE DE SAPEURS-POMPIERS DE PARIS Oct. 2021 - Apr. 2022

Battalion Chief - Paris-13 Fire Department

Commanded emergency operations as a French army officer, leading teams of up to 15 personnel. Thrived in high-pressure environments, managing and aiding victims during critical emergencies.

REWARDS

Excellence Scholarship

2019 - 2021 - Delivered by the french Ministry of Education

International Chemistry Olympiads

2020 - Ranked 8th in France

France Defence ministry bronze medal

2022 - Delivered by the french army ministry by way of exception

Outstanding investment award

2023 - Delivered by EcolePolytechnique for the investment in the associative life