

Victor Lemaître

Github
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EDUCATION

- **Paris Dauphine University** Paris, France
First year of Master in Computer Science and Mathematics (Master I2D)
Ranked 2/34 in the first semester. Expected graduation date for the second year is may 2026
 - **Relevant Courses:** Machine Learning, Artificial Intelligence (GOFAI),
Convex and combinatorial optimization, Game Theory, Decision Theory, Graph Theory
- **Paris Dauphine University** Paris, France
BSc in Computer Science and Mathematics; Graduated with honors
Ranked 14th out of 201 in the first year and 10th out of 39 in the second, equivalent to 3.5 GPA
 - **Relevant Courses:** Data Analysis, Semi-structured Data, Functional programming,
Linear Algebra, Probability Theory
- **Uppsala University** Uppsala, Sweden
Exchange program in Computer Science and Mathematics; Passed 4 out of 6 classes
with highest honors
 - **Relevant Courses:** Databases system, Differential equations
- **MPSI-MP* Janson de Sailly** Paris, France
Aug. 2020 – Sept 2022
- **Lycée Notre Dame les Oiseaux** Verneuil-sur-Seine, France
Baccalauréat Général mention très bien
2020

ADDITIONAL EDUCATION

- **AI safety Sweden, AI safety fundamentals** Uppsala, Sweden
Studied technical aspects of AI safety and alignment. Conducted a research distillation project
on shard theory.
Sept. 2023 - Jan. 2024

EXPERIENCE

- **Summer research internship** Paris Dauphine university, France
Under Tristan Cazenave's supervision I improved the neural network behind
AstraZeneca's retrosynthesis tool Aizynthfinder by generating large amount
of synthetic data
May 2024 - Sept. 2024
 - **Relevant skills:** TensorFlow, Numpy, Pandas
- **Summer research internship** LAMSADE, France
Currently pursuing a research internship under Yann Chevalere's supervi-
sion on improving the robustness of LLM for roleplay.
May 2025 - Sept. 2025

PERSONAL PROJECT

- **Search engine for legal precedent:** Utilized parameter-efficient fine-tuning techniques like LoRA or NEAT to train a Bert model for embedding case laws. Preprocessed the data with GPT4o Mini's api before training the model using an unsupervised approach described in the SimCSE paper.
- **Interpreting an MLP trained on modular addition :** Investigated how a one-layer MLP computes modular addition using Fourier transforms inspired by Neel Nanda's Grokking work. Leveraged PyTorch hooks to investigate hidden layer activations and identified key frequency patterns used by neurons
- **ENS-Challenge data on Parkinson Disease:** Ranked 2nd on the public dataset as of May 26th. The challenge's aim is to predict an unbiased estimate of the patients "OFF score" which describes the severity of their motor symptoms when the effects of treatment wear off. I experimented with several popular ML technique like XGBoost and batch-ensemble before selecting a Transformer architecture combined with deep ensembling.

PROGRAMMING SKILLS

- **Languages** (From most to least proficient): Python, C, Haskell, Java, OCaml, SQL, R
- **Libraries & Frameworks:** Pytorch, Polars, Tensorflow, Numpy, Pandas, Matplotlib