

Victor Lemaître

<https://github.com/Victorlemaitre>

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EDUCATION

- Paris Dauphine university** Paris, France
 - first year of Master in Computer Science and Mathematics (Master I2D)* Aug. 2024 – now
- Paris Dauphine university** Paris, France
 - BSc Computer Science and Mathematics; Passed with honors (ranked 14th out of 201 in the first year and 10th out of 39 in the second)* Aug. 2022 – July 2024
- Uppsala university** Uppsala, Sweden
 - Exchange program in Computer Science and Mathematics; Passed 4 out of 6 classes with highest honors* Aug. 2023 – Jan. 2024

ADDITIONAL EDUCATION

- AI safety Sweden, AI safety fundamentals** Uppsala, Sweden
 - Participated in weekly debate over topics in technical Ai safety research. Had to conduct a research distillation project and chose shard theory.* Sept. 2023 - Jan. 2024
- Andrej Karpathy, Neural Networks: Zero to Hero** Feb. 2024 - April 2024
 - 13 hours of youtube videos giving in-depth explanations of pytorch's internals, backpropagation and transformer architecture. Reimplemented the multi-head attention layer from simple tensor operations. Used chain of thought to teach a small transformer the addition of two numbers*

EXPERIENCE

- Summer research internship** Paris Dauphine university, France
 - 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

PERSONAL PROJECT

- Interpreting an MLP trained on modular addition** : Analyzed how a one-layer MLP computes modular addition using Fourier transforms. Used PyTorch hooks to investigate hidden layer activations and identified key frequency patterns used by neurons

PROGRAMMING SKILLS

- Languages:** Python, C, Haskell, OCaml, Java, SQL, R
- Libraries & Frameworks:** Pytorch, Tensorflow, Numpy, Pandas, Matplotlib