

Maxence Lasbordes

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EDUCATION

ENS Paris-Saclay & PSL Research University

2024 – 2025

MSc in Machine Learning (MVA/MASH)

Paris, France

- **Courses:** Advanced learning for text and graph data (ALTEGRAD), Large Language Models, Deep Learning in Practice, Optimization for Machine Learning, Foundations of Machine Learning

Télécom SudParis, Institut Polytechnique de Paris

2021 – 2024

MSc in Statistics

Paris, France

- **Courses:** Statistical Learning, Time Series Analysis, Stochastic Processes, Monte Carlo Methods

Fénelon Sainte-Marie

2019 – 2021

”Classe Préparatoire aux Grandes Écoles” (MPSI/MP*)

Paris, France

- **Courses:** Linear Algebra, Probability Theory, Advanced Calculus, Python Programming
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WORK EXPERIENCE

Fondazione Bruno Kessler, Research Institute

June 2024 – Sept. 2024

Machine Learning Researcher Intern

Trento, Italy

- Developed Zipformer-like architectures for FBK’s [Early-Exit Conformer models](#) for Automatic Speech Recognition, achieving a 1% reduction in Word Error Rate (WER) and improved Inference Speed
- Researched & Experimented with Dynamically Weighted Ensemble Methods

Kooping, Start-up Station F

June 2022 – Aug. 2022

Deep Learning and Computer Vision Intern

Paris, France

- Worked on a protective Object Detection model for video streams to improve construction safety
 - Built and Cleaned a Database. Trained Deep Learning models using Amazon Web Services (AWS)
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PROJECTS

BERT from Scratch & Fine-tuning



- Re-implemented BERT from scratch and the entire Pre-training process on a small dataset using Pytorch. BERT is a LLM which achieved SOTA performance on various NLP benchmarks
- Deployed & Fine-tuned Hugging Face’s BERT model on an English X-dataset of 30,000 posts for emotion classification, achieving 95% accuracy

Volleyball Referee Action Recognition with OpenCV



- Implemented & Deployed a volleyball referee hand signal detection and classification model using OpenCV, MediaPipe, PyTorch and LSTM/CNN neural networks
 - Created & Trained on a custom dataset of hand signals landmarks, achieving effective model performance on limited data
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EXTRACURRICULAR

Freelance Video Editor on Fiverr & President of the Video Club

- Freelance Videographer, specializing in Promotional Videos and Short Ads for businesses
 - Led a 12-member video club organizing Screenings for over 600 Students. 20 000€ of total budget.
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OTHER

Languages: English (Fluent), French (Native), Japanese (Notions)

Skills: Python, R, SQL, Bash | PyTorch, Scikit-Learn, NumPy, Pandas, TensorFlow, OpenCV | Docker

Online Certificates: Deep Learning & AI (FBK), Deep Learning Specialization (by Andrew Ng)

Interests: Captain of the Volleyball Team (7 years), Amateur Videographer, Self-taught Guitarist