Killian Steunou

Deep Learning Research Engineer

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Summary

Deep-Learning Research Intern at IDEMIA completing M2 MVA internship; pursuing Deep-Learning Research Engineer role in Computer Vision from October 2025.

Education

2024–2025 **M2 Mathématiques, Vision, Apprentissage**, *ENS Paris-Saclay*, Gif-sur-Yvette, France.
Optimal Transport, Computer Vision, Probabilistic Graphical Models, Representation Learning, Generative Models, 3D Modeling

2023–2024 **M1 Applied Mathematics & Statistics**, *Toulouse School of Economics*, Toulouse, France.
Econometrics, Probability, Optimization, Machine Learning, Game Theory, MDP

2019–2022 **Double Bachelor in Applied Mathematics & Economics**, *Toulouse School of Economics*, Toulouse, France.

2022 **Gap-semester**, *University of Copenhagen*, Copenhagen, Denmark.

Technical Skills

Languages Python, R, LaTeX, Bash

Frameworks PyTorch, NumPy, Pandas, Streamlit

Tools Git, Linux, Google Cloud

Concepts Optimization, Machine Learning, Deep Learning, Mathematics

Experience

Apr 2025–Oct 2025 **Deep-Learning Research Intern**, *IDEMIA*, Paris, France.
- Investigated multi-object tracking and segmentation.
- Built automatic video instance-segmentation mask generator from MOT data with SAM2.
- Trained custom tracking models with instance-segmentation auxiliary task.

Apr 2024–Aug 2024 **AI Research Intern**, *C.L.S.*, Toulouse, France.
- Benchmarked foundation models for Earth-observation semantic segmentation.
- Surveyed state-of-the-art self-supervised methods for imagery and remote sensing.
- Developed tested Python library for fine-tuning vision foundation models.

Feb 2023–Jul 2023 **Machine-Learning Engineer Intern**, *Jolibrain*, Toulouse, France.
- Contributed to open-source image-generation tool *joliGEN*.
- Implemented edge-detection methods for generation control.
- Trained experimental diffusion models for inpainting.

May 2022–Aug 2022 **R Developer Intern**, *French Ministry of Agriculture*, Paris, France.

Projects

Feb 2024 **Video Background Removal**.
Automatic background removal behind subjects in video using AI models. GitHub

Dec 2024 **Test Time Training with Masked Autoencoders**.
Extension of the TTT-MAE method with an online version that shows better performance than the original method. GitHub | Report