Killian Steunou

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LinkedIn: https://www.linkedin.com/in/killian-steunou/
Github : https://www.github.com/killian31

OBJECTIVE

Enrolled in the Master 2 MVA at ENS Paris-Saclay, I am seeking a research internship in AI from April 2025. I am particularly interested in AI in Computer Vision and explainability.

EDUCATION

ENS Paris-Saclay, Gif-sur-Yvette (France) March 2025
M2 Mathématiques, Vision, Apprentissage
- Optimal Transport, Convex Optimization, Object Recognition and Computer Vision, Probabilistic Graphical Models, Deep Learning and Signal Processing, AI Safety and Explainability.
- Generative Models for Image, 3D Modeling, Representation Learning for Computer Vision, Remote Sensing Data, Deep Learning for Image Synthesis.

Toulouse School of Economics, Toulouse (France) April 2024
M1 - Applied Mathematics, Statistics
- Econometrics, Probability and Statistics, Functional Analysis, Convex Optimization, Python.
- Foundations of Machine Learning, Game Theory, Optimization for Non Smooth Functions, Markov Decision Processes, Data Analysis, Stochastic Methods for Optimization and Sampling.

Toulouse School of Economics, Toulouse (France) May 2022
Double bachelor in Applied Mathematics and Economics
- Economics, Applied Mathematics, Statistics, Computer Science

University of Copenhagen, Copenhagen (Denmark) Sep. 2022 - Jan. 2023
Gap year - 1 semester
- Natural Language Processing, Blockchain Business Dev, Energy Economics, Tax Policy

TECHNICAL SKILLS

Languages: Python, R, Scilab, LaTeX
Tools/Framework: Git, PyTorch, Linux, Vim, Visual Studio, R Studio, Jupyter
General: Optimization, Data Structures, Algorithm, Machine Learning, Web Scrapping

EXPERIENCE

C.L.S.: AI Research Intern **April 2024 - August 2024**
Benchmarking Foundation Models (FM) for Earth Observation, against standard models for semantic segmentation.
- Review of SOTA self-supervised learning methods for images, and remote sensing data.
- Development of a fully tested and documented Python library to finetune foundation vision models.

Jolibrain: Machine Learning Engineer Intern **February 2023 - July 2023**
- Contribution to the open source image generation tool joliGEN (implemented different edge detection methods for generation control)
- Implementation of SOTA models for image generation, and detection.
- Training of various experimental diffusion models for inpainting task.

French Ministry of Agriculture: R Developer Intern **May - August 2022**
Agile development of an R package which goal is to help create statistical publications by automating tasks, including an advanced graphic interface in R Shiny.

PROJECTS (you will find more on my GitHub)

Video Background Removal **February 2024**
Automatic background removal behind a subject of interest in a video, with AI models.
More information: https://github.com/killian31/VideoBackgroundRemoval

Academic Project: Multilingual Machine Reading **Sep - Dec 2022**
NLP project which goal was to build a question answering system in English, Finnish and Japanese, using various methods (BoW, pretrained GPT-like models...).
Project Link: https://github.com/killian31/Multilingual-Machine-Reading

CERTIFICATIONS

- **Python 3 Programming** by University of Michigan on *Coursera*
- ***TOEFL IBT**: 104*