Killian Steunou

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

OBJECTIVE

Starting the Master 2 MVA at ENS Paris-Saclay in September 2024, I am seeking a research internship in AI from April 2025. I am particularly interested in AI in Computer Vision.

EDUCATION

ENS Paris-Saclay, Gif-sur-Yvette (France) March 2025
M2 Mathématiques, Vision, Apprentissage
- Deep Learning, Image Processing, APplied Mathematics

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 Development, 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 (Python)

EXPERIENCE

C.L.S.: Machine Learning Engineer Intern **April 2024 - August 2024** Evaluating the relevance of using Foundation Models (FM) for Earth Observation, against standard models for semantic segmentation.
- State of the art review: comprehensive review of classical self-supervised learning methods fr images, and those applied for remote sensing data.
- Benchmark of different models through the development of a Python library to easily fine-tune a FM on any dataset.

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 state-of-the-art models for image generation (Diffusion models such as ControlNet), and detection (Owl-ViT model for zero-shot object detection).
- Training of various experimental diffusion models for inpainting task.
Toulouse, France

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.
Toulouse, France

PROJECTS (you will find more on my GitHub)

Object Recognition : Owl-Vit for videos **February 2023**
Implementation of Google's Owl-ViT model for zero-shot object detection in videos.
More information: https://github.com/killian31/ObjectsDetection

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*