

# Yann MILLET

## Machine Learning/Computer Vision student

✉ yann.millet@telecom-sudparis.eu | 🇫🇷 French | in yannmillet | 🌐 milletyann | 📁 Portfolio

🏠 Hackerrank

### Profile

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I am currently in a gap year between my second and last year at Télécom SudParis (Polytechnic Institute of Paris) with an Applied Mathematics and Statistics specification, and further looking to pursue a PhD in Artificial Intelligence at the Polytechnic Institute of Paris.

Besides, after an internship during the first semester of 23/24, I am actually doing an exchange semester at the University Carlos III of Madrid, in AI/Mathematics.

### Professional Experience

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**R&D Computer Vision Intern, OpenMind Neurotechnologies** [🔗](#) 09/2023 – 01/2024  
Paris, France

- Made Proof of Concept of a web eye-tracker (Javascript)
- Literature review of state of the art techniques of Eye-tracking
- Set up the development pipeline (functioning project, data collection/cleaning/preprocessing/analysis, improvement brainstorming, iterations)
- Analysis of the gathered data (Python)

**Web Developer Intern, Neofacto** [🔗](#) 06/2022 – 08/2022  
Esch-sur-Alzette, Luxembourg

- Developed a showcase website from nothing using Vue.js, nuxt.js, HTML/CSS & Javascript.
- Accompany my successor to take over & pursue my work.
- Work hands to hands with Communication & Marketing services to fulfil their expectations.

### Projects

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**NeRF - Computer Vision, Creator** 12/2022 – present

- Understand functioning of NeRF.
- Analysis of research papers about NeRF breakthrough and improvements.
- Implementation of a NeRF & Fine-tuning of it.
- Present our work in front of a group of Deep Learning teachers & PhD Doctorate Students.

**Success Analysis (NLP) on Instagram content, Researcher** 01/2023 – present

- Build/Train/Fine-tune an NLP algorithms in Python to analyse posts & comments.
- Clean/Visualize data.
- Create/Organize the training & testing databases (23 000 posts & 790 000 comments).

**KRYPTOSPHERE®, AI Division** [🔗](#) 02/2022 – present

- Work with other groups of students on our own AI projects.
- AI courses & MOOC.
- Hackathons

**Prediction of Forest Fire surface extent, Creator** 10/2020 – 03/2021

- Use of Scikit-learn Python library to build a Support Vector for Regression (SVR) algorithm to predict fire extent with more than 95% of precision.

- Data Cleaning & Pre-Processing (retrieved from a raw css file).
- Present my work in front of a jury composed of mathematics & physics teacher.

## Education

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**Master in AI, Mathematics & Data Science**, *University Carlos III*

01/2024 – present

### Relevant courses

Madrid, Spain

- Machine Learning (Weka, python)
- Probability simulations & Statistics (R, R Studio)
- Numerical methods applied in Finance & Economy (matlab)
- Artificial Intelligence
- Critical thinking & problem analysis
- Mathematics of quantum mechanics

**M.S. Computer Science**, *Télécom SudParis* [↗](#)

09/2021 – present

### Relevant courses

France

- Computer Vision & Deep Learning (NeRF, PyTorch, Python)
- Statistics, Applied Statistics, Data Analysis, Probability, Optimization
- Automatic learning & Data Mining/Pre-Processing
- Stochastic processes & Numerical simulations
- Data & AI
- System Programming (C, Bash)
- Databases (SQL)
- Software Engineering (Java, UML)

**"Classes Préparatoires"**, *Lycée Kléber* [↗](#)

09/2018 – 06/2021

3 years of very intense Mathematics, Physics & Computer Science studies, as part of the French system. In this system, students work very hard to prepare for nationwide contests which determine which French high Engineering school they are accepted in.

## Skills

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### AI / Machine Learning

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Python libraries (PyTorch, TensorFlow, Keras, Scikit-Learn, Matplotlib, Pandas), Network architectures (MLP, CNN, RNN, GAN), Weka, R/R Studio

### Programming Languages

● ● ● ● ●

Python, R, Javascript, SQL, Java, C, Bash

### Mathematics

● ● ● ● ●

Probability, Stats & Applied Stats, Optimization

### Soft skills

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Teamwork, Decision making, Organization, Critical Thinking, Self-motivation, Dedication

## Courses

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### Deep Learning with TensorFlow & Keras,

*Udemy MOOC* [↗](#)

- NumPy, Pandas, Seaborn
- Machine Learning Overview
- Theory & Practice on different network architectures: ANN, CNN, RNN, NLP, AutoEncoders, GAN
- Deployment with Flask API

## Languages

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### French (Native)

C2

### English

C1

### German

B1

### Spanish

A2

### Russian

A1

**Interests**

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**Sports**

Track and field (Pole Vault, Combined Events), Street-workout/Calisthenics

**Music Production**

Vocal Mixing, Mastering, & Beatmaking