Yann MILLET

Machine Learning/Computer Vision student

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▦ Hackerrank

Profile

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

R&D Computer Vision Intern, *OpenMind Neurotechnologies* ↗   09/2023 – 01/2024
- Made Proof of Concept of a web eye-tracker (Javascript)   Paris, France
- Litterature 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
- Developed a showcase website from nothing using Vue.js, nuxt.js, HTML/CSS & Javascript.   Esch-sur-Alzette, Luxemburg
- Accompany my successor to take over & pursue my work.
- Work hands to hands with Communication & Marketing services to fulfil their expectations.

Projects

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

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

01/2024 – present
Madrid, Spain

Relevant courses
- 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
France

Relevant courses
- 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
Strasbourg, France

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

AI / Machine Learning ● ● ● ● ○
Python libraries (PyTorch, TensorFlow, Keras, Scikit-Learn, Matplotlib, Pandas), Network architectures (MLP, CNN, RNN, GAN),

Programming Languages ● ● ● ● ○
Python, Javascript, SQL, Java, C, Bash

Mathematics ● ● ● ● ○
Probability, Statistics, Applied Statistics, Optimization

Soft skills ● ● ● ● ●
Teamwork, Decision making, Organizational skills, Critical Thinking,

Courses

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

Ethical Hacking: Pen-testing & Web Security,
Udemy MOOC
- Kali Linux & correlated tools (Metasploitable, Wireshark)
- SQL Injection
- CSRF, LFI, RFI, XSS Flaws
- Security configurations

Interests

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

Music Production
Vocal Mixing, Mastering, & Beatmaking

Languages

French (Native)
C2

English
C1

German
B1

Spanish
A2

Russian
A1