

# CLEMENT WANG

## DATA SCIENTIST

I am a **Master of Engineering student** passionate about mathematics and AI, seeking a 6-month internship in **Deep Learning**.

## CONTACT

- +33 7 83 45 18 88
- clementwang2001@gmail.com
- linkedin.com/in/clement-wang-088790201/
- github.com/clementw168

## TECH SKILLS

- Data Science & AI**
  - Pytorch, Tensorflow, Keras, Pandas, Scikit learn, XGBoost, OpenCV
  - R, Matlab
- Database**
  - SQL
- Software**
  - Python, C#, OCaml
- Tools**
  - Git
  - Docker
- Web**
  - HTML - CSS
  - JavaScript
  - NodeJS
- Creative**
  - Unity
  - Blender
- Mathematics**
  - Statistics, probability, analysis
  - Algebra
  - Signal processing

## LANGUAGE

- French, native language
- English, complete professional capacity (IELTS 7/9, C1)
- Chinese, B1
- Spanish, notions

## OTHER EXPERIENCES

- President of the AI student organization of CentraleSupélec**

As the President of the association, I had the opportunity to

  - Manage a team of 30 members
  - Organize events
  - Organize practical works and training courses
- Tutoring undergraduate students** in Mathematics and Computer Science
- Participating in events to promote AI** in primary schools and secondary schools
- 2-month workman internship** at Amazon

## HOBBIES

- Volleyball, basketball, running
- Nature
- Mangas

## EXPERIENCES AND PROJECTS

### Data Scientist & Software Engineer Paris Digital Lab Feb 2022 - Ongoing

Agile prototyping at the Paris Digital Lab, developing 3 minimum viable products in a 7-week constraint for real-world business, using scrum methodology.

- Project #1: Confidential company**

Object detection and semantic segmentation: YoloV3, Faster RCNN, U-net and OpenCV.

Techs: Python, Pytorch, OpenCV

- Project #2: L'Oréal - R&D department**

Computer vision to make lipstick recommendations. Uncertainty estimation and calibration of DNNs with Deep evidential regression.

Techs: Python, Tensorflow, Keras, MediaPipe, Weights & Biases

- Project #3: Oorion**

Computer Vision to help the partially sighted to find their belongings from the camera of their mobile. Few shot image classification, Few shot object detection, CLIP as zero shot learner.

Techs: Python, Pytorch

### Associative experiences Automatants Sept 2020 - Jan 2022

AI student organization of CentraleSupélec, promoting Artificial Intelligence. Took part in my free time in several tech projects both as developer and project manager.

- Advanced image classification - Intern competition, Nov 2021 - Dec 2021**

Very imbalanced image classification competition. Implementing mobilenetV2, few shot learning, semi-supervised learning with noisy student, ensemble methods.

- Neural Style Transfer - Perceptual loss, Sept 2021 - Oct 2021**

Optimizing a perceptual loss and using a network to transfer style on real time video.

- Cat generation with GANs, Oct 2020 - Feb 2021**

Developing several architectures of GANs from scratch: DCGAN, Resnet GAN, ProGAN.

Exporting it on a website with Tensorflow JS.

Techs: Python, Keras, Tensorflow, OpenCV, Numpy, JavaScript, HTML - CSS, Tensorflow JS

### Student projects

CentraleSupélec allows students to choose their courses and projects. I have always chosen courses and projects related to new techs and Machine Learning.

- Tabular data competition, Jan 2022**

Decision Trees, SVMs, regressions and XGBoost.

Techs: Python, Jupyter Notebook, XGBoost, Scikit learn, Pandas, Geopandas

- Medical Data Analysis, Apr 2021**

Clustering algorithms to find links between gene in partnership with Pasteur Institute.

Techs: Python, R

### Personal initiatives

I have always been striving to discover new techniques to solve problems.

- Solving maze with genetic algorithm, Mar 2021**

Techs: Python, Numpy, Pygame

- Project Euler, 2018**

50+ algorithm problems solved on projecteuler.net/

Techs: Python, C

## EDUCATION

### Master of Engineering CentraleSupélec - Université Paris Saclay Sept 2020 - Ongoing

CentraleSupélec is one of the most prestigious French "Grandes Ecoles", based on a highly selective admission process.

Relevant courses: Algorithm & programming, parallel calculus, machine learning, statistics and learning, game theory, mathematics (convergence, integration, probability)

### Digital Tech Year CentraleSupélec Feb 2022 - Ongoing

Admitted to the one-year digital technology specialization program, developing real-world projects, plus one semester international work experience.

### Preparatory courses Lycée Henri IV Sept 2018 - Jul 2020

Two years of intensive courses in advanced mathematics, physics and computer science preparing to the highly competitive entrance exams to the "Grandes Ecoles".

Relevant courses: Mathematics (algebra, analysis, probabilities), physics (mechanics, quantum mechanics, thermodynamics, electromagnetism) and computer science (Python, OCaml)