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## Websites

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in yacine bouaoui

## Skills

### Python

Pytorch, Tensorflow, Langchain, Jax, OpenCV, scikit-learn, Flask.

### Google Cloud Platform

### C and C++

OpenCV, PCL, Eigen.

### MLOps

### Databases

MongoDB, MySQL

### Docker

### Bash Scripting

### Git & Github

## Supervised Projects

- Self-Supervised Learning Method for Image Restoration
- Soft Actor Critic in Jax
- Auxiliary Classifier GANs for Medical Image Generation

## Freelance

ML and Computer Vision Top Rated Freelancer @ Upwork

## Hackathons

### UmojaHack Algeria

Time to arrival estimation using ML

Ranking: 3/81

### UmojaHack Africa

Financial Resilience Challenge.

Ranking: 24/463

## Languages

### English

TOEFL IBT 102/120

### French

TCF level C2

### Arabic

Native

## Yacine Bouaoui

## Publications

Driving-Pattern Identification and Event Detection Based on an Unsupervised Learning Framework: Case of a Motorcycle-Riding Simulator - [Paper](#) -

## Honors

IDEX International Excellence Master's Scholarship winner at Paris Saclay 2021.

## Education

- **MSc Mathematics, Vision, Machine Learning (MVA)**  
**ENS Paris-Saclay, Paris** 2021 - 2022  
Grade: 17,52/20
- **Computer Vision Nanodegree.**  
**Udacity - Nvidia, (Online)** 2020  
Program: [Link](#)
- **Engineering Degree and Master in Signal Processing**  
**Ecole Nationale Polytechnique, Algiers** 2016 - 2021
  - *Engineering Cycle* Ranking: **1/23**
  - Preparatory classes Ranking **1/307**
  - Entrance Examinations for Elite Schools (Grandes Ecoles) Ranking **6/1338**

## Experience

- **Machine Learning Engineer**  
**Valeo, Paris** Since October 2022
  - Developed a framework for training and testing deep learning models for visual inspection
  - Collaborated in [confiance.ai](#) project on data drift detection for multiple modalities
  - Designed and developed a fully automatic pipeline on GCP for visual inspection
- **Machine learning & Image Processing Research Intern**  
**GoPro, Paris** Avr. 2022 - Sept. 2022
  - Conduct a research on deblurring models based on deep learning.
  - Design and develop an image processing pipeline based on DL models.
  - Successfully filed an innovation patent within the company
- **Deep Learning Research Intern**  
**Ecole Nationale Polytechnique, Algiers** Fev. 2021 - Juil. 2021
  - Developed hybrid deep learning methods for audio source separation in the time frequency domain
  - Designed and implemented a first sequential method based on NMF and a Neural Network and a second method based on deep unfolding
- **Machine Learning Research Intern**  
**Laboratory SATIE, Paris** Juin 2020 - Fev. 2021
  - Conduct a research on riding patterns identification based on unsupervised learning
  - Successfully published a paper in IEEE Access. Link: [Paper](#)
- **Computer Vision Intern**  
**Ecole Nationale Polytechnique, Algiers** Sept. 2020 - Oct. 2020
  - Conduct a comparative study of image descriptors and improve feature matching performance using approximate nearest neighbor methods for TTC estimation.
- **Computer Vision Intern**  
**Signal and communication laboratory (ENP), Algiers** Oct. 2019 - Déc. 2019
  - Build a deep learning model to segment cloud organization patterns from satellite images.