



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.

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Websites

🌐 yacinebouaoui

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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 @ Upwrok

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