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# Hamza OUKADDI

Engineering student in applied Mathematics and modeling, looking for a one year apprenticeship in Data Science starting from September



## Key skills

- **Data Science:**
  - Scikit-Learn
  - Pandas
  - PyTorch
  - Machine Learning
  - Deep Learning
  - TensorFlow with Keras
  - SQL
  - Matlab/ Octave
- **Programming Languages:**
  - Python
  - R
  - Java
  - C++
- **Web:**
  - HTML
  - CSS
  - Flask
  - WebScraping
- **Other:**
  - Git
  - Linux
  - Jira
  - LaTeX
- **Languages:**
  - English (B2 level, TOEIC : 940/990)
  - French (fluent).

## Soft skills

- Analysis and problem solving
- Agility, Team Spirit
- Versatility, Autonomy

## Interests

- Artificial intelligence.
- Research.
- Photography
- Design

## Education

- Sept. 2020 - **Applied math and modelling engineering**  
to date *at Polytech Nice Sophia*, Sophia Antipolis, France  
**Minor:** Data Science  
**Graduation expected** in 2024  
**Main studied subjects:** Machine learning, Optimisation, Applied AI, Augmented reality...
- 2018 - 2020 **Competitive exams for French top schools (CPGE)**  
*at Mohamed 5*, Casablanca, Morocco  
Two years of study which act as an intensive preparatory course with the main goal of training students for enrolment in one of the "grandes écoles" (Top French schools).  
**Specialisation:** Mathematics and physics MP.
- 2018 **Scientific Baccalaureate** *at Lycée O.Hriz*, Berrechid, Maroc  
**option:** Science Math.

## Experiences

- July. 2022 - **Data Science intern** *at iPepper*, Sophia Antipolis  
Dec. 2022 Development of a platform with a data-driven approach to identify candidate-job posting matches using web scraping and statistical analysis skills.
- July - August 2021 **Summer internship** *at Association Union*, Mulhouse, France  
Tasks performed:
  - Development of a website.
  - Improvement of a database (automation of some processes e.g., registrations, memberships management).
  - Management of the local computer network.
- Oct. 2021 - **Inventory Associate** *at RGIS*, Nice, France  
to date Scan of barcodes for the current inventory at Customer locations to provide them with proper inventory information that will assist them in making better business decisions and better supporting their customer

## Academic and personal projects

- 2022-2023 **Offside detection in football**  
Offside detection in football using computer vision and classification techniques.  
**Used tools:** Python, OpenCV, Scikit-Learn, Flask.
- 2022 **Traffic flow simulation**  
Road traffic flow simulation using macroscopic models modeling based on partial differential functions such as Lighthill-Whitham-Richards (LWR).  
**Used tools:** Python, Numpy
- 2022 **Fraud detection in credit cards transactions**  
Analysis of credit card transactions for fraud classification with a focus on how to manage a unbalanced dataset.  
**Used tools:** R
- 2022 **Tumor detection in medical imaging**  
Development of a program based on a **U-Net neural network**, detecting cancerous tumors in livers using data provided by doctors.  
**Used tools:** Python, Pytorch, Pandas.