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Hamza Oukaddi

Engineering student in applied Mathematics and modeling, looking for new experiences as intern in Data science

Key skills

- Programming languages:
  -**Python**(Proficiency in NumPy,Pandas,PyTorch,Scikit-Learn),
  -**R**,
  -**Octave/Matlab**,
  -**Java**(JavaFX),
  -**C++**,
  -**HTML,CSS,Flask**,
  -**LateX**,
  -**Git**
- Databases: Basic knowledge of **SQL**.
- Os: **Windows** and **Unix**.
- Languages: **English** (C1 level, TOEIC : 940),**French** (fluent).

Soft skills

- Conscientious and easygoing, I have excellent communication skills.
- A hardworking and enthusiastic graduate student, I am adaptable and a dedicated team member.

MOOCs

- Deep Neural Networks with **PyTorch**,**IBM** Coursera

Interests

- Artificial intelligence.
- Research.
- Photography
- Design

Education

2020 - to date **Graduate school of applied math and modelling engineering.** *at **Polytech Nice Sophia***, Sophia Antipolis,France
Graduation expected in 2023
Main studied subjects: Machine learning, Optimisation, Time series, Augmented reality

2018 – 2020 **Competitive exams for French top schools** *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.

Experiences

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 - to date **Inventory Associate** *at **RGIS***, Nice,France
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 projects

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.
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.

2021 **Modeling of the particle swarm optimisation method PSO**
Search for the **optimum** of a function and study of the influence of **parameters**.
Implementation on the **Easom** function.
Used tools: Python,Numpy.

2021 **Graphical simulation of a pandemic**
Study of the spread of a pandemic according to different parameters.
Graphic visualization.
Used tools: Java, JavaFX.