

Omar ARIF

Data Scientist / ML Engineer

Educational background

ENSEIRB-MATMECA (BORDEAUX-INP)

2019-2023

IT Engineer

Specialization: Artificial Intelligence

Lycée Moulay Youssef (Rabat, Maroc)

2016-2019

Preparatory classes for the "Grandes Écoles" (Engineering Great Schools)

Branch : Mathematics-Physics (MP)

Lycée Assabil (Rabat, Maroc)

2015-2016

Baccalaureate

Branch : Mathematical sciences

Professional experience

Cdiscount

2022

Data Scientist (6 months Internship)

Design, development, and deployment of a Machine Learning (ML) model to automate the identification of whether a product from the Cdiscount.com catalog is present on competitor websites (Product Matching). This identification is done using textual data [NLP] (product titles, descriptions) and visual data [Computer Vision] (product images).

The project involved several stages:

- State of the art of possible techniques
- Data collection, analysis, and processing
- Implementation and training of Deep Learning models
- Evaluation of models and analysis of results
- Writing reports/documentation and regularly creating/presenting dashboards
- Deployment of the final solution after optimization

Technical Stack : Python, Pytorch, SQL, Snowflake, Pandas, Scikit-learn, Transformers, Bash scripting, Git, Docker, Kubernetes ...

ADD (Agence du Développement du Digital)

2022

Python Developer (3 months Internship)

CDesign and implementation of a **scraping API** for scientific publications from various websites.

Creation of **dashboards** after processing and transforming the data collected using this API.

Technical stack: Python, HTML, FastAPI, BeautifulSoup, Power BI, Bash scripting, Git, Docker, Transformers...

Freelance Developer

2023-Now

Example of projects:

- Development of an API using AI to detect and flag offensive, unwanted, or toxic messages or images that need to be censored.
- Development of a **super-resolution** application (**Computer Vision**) to enhance the quality of a specific region in videos, particularly in surveillance footage.
- Development of a movie recommendation API based on scenario preferences (**LLMs-Semantic Search**).
- Development of a cover letter generation tool from a resume and a job offer (**LLMs-NLP**).
- Generation of night images from day images (**Computer Vision**).
- Development of commercial chatbots (NLP).
- Development of a Snake game with intelligent agents (**Deep Learning**).

Technical skills

Programming languages :

Python, Java, C, C++, SQL, Bash, HTML/CSS, Assembleur x86

Libraries and programming tools:

Pandas, Tensorflow/Keras, Pytorch, Spark, Snowflake, Git, Power BI, Docker, BeautifulSoup, FastAPI, Scikit-Learn, OpenCV, Transformers, Kubernetes, Streamlit ...

Online Certificates:

Introduction to Machine Learning in Production (<https://coursera.org/verify/PU3MYU79R98>)

Personal Qualities

Soft skills: Autonomy, Curiosity, Team spirit, Creativity, Analytical spirit, Work under pressure

Languages: **French** : Fluent, **English** : Fluent (C1 - IELTS 8.0)

Hobbies : Football, Histoïy, Cinema

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