




Oussama Mounajjim

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EXPERIENCE

Data Scientist, Nooba Health

01/2024 – present | Casablanca, Morocco

- Developed a model to analyze patient sickness for Nooba.
- Created a virtual queue management application.
- Improved patient convenience by reducing waiting room time.
- Enhanced doctor efficiency with pre-consultation forms.
- Generated healthcare statistics for system-wide insights.

Research Intern, CriStAL

02/2023 – 09/2023 | Lille, France

- Created a foundational data source and trained a model.
- Developed a sensor management system with API integration.
- Built a comprehensive data repository for machine learning.

Team Leader of the Coding & Development Unit, Centrale Tech

09/2022 – 02/2023 | Casablanca, Maroc

- Organized workshops on Python and web development.
- Contributed to strengthening student's technical skills.

PROJECTS

AdabTranslate-Darija

- Developed a Darija to Standard Arabic translation model.
- Fine-tuned on a dataset of 26,000 annotated text pairs augmented with GPT-4 techniques.

Skills: Natural Language Processing, model development, dataset annotation, metrics evaluation.

Development of Advanced VoiceBot for Call Centers

- Developed a VoiceBot with near-human communication for Attijariwafa Bank.
- Integrated a sophisticated system architecture combining speech-to-text, node search, LLM prompt engineering, retrieval-augmented generation, and text-to-speech modules.
- Evaluated success based on response time and human feedback, prioritizing accurate and relevant information delivery.

Skills: NLP, RAG, Langchain, Data Integration, API Development

Multi-Modal Medical Image Question Answering Model

- Developed MIDEFICS, a multi-modal model for medical image question answering.
- Fine-tuned the model for enhanced medical performance using specialized datasets.
- Integrated advanced techniques to describe visual content, generate recommendations, and function without visual inputs.

Skills: NLP, Python (PyTorch, Transformers), Model Fine-Tuning.

EDUCATION

Engineer's Degree in Data Science,

École Centrale Casablanca

09/2021 – 09/2024

Specialized in Data Science from the fifth semester onwards. Developed skills in Python programming, statistical techniques, machine learning, and big data analytics.

Academic Exchange Program, École Centrale de Lille

02/2023 – 09/2023

Focused on Data Science and gained skills in artificial intelligence and digitalization.

Preparatory Classes, Lycée qualifiant Errazi

09/2019 – 07/2021

Ranked 172 out of 882 students, demonstrating strong analytical and problem-solving skills essential for engineering studies.

SKILLS

Python, NumPy, Pandas, Matplotlib, SciPy, Statistics, Scikit-Learn, TensorFlow, Natural Language Processing (NLP), SQL, NoSQL, Big Data (Spark, Hadoop), APIs, Flask, Docker, Reinforcement Learning, GANs.

AWARDS

Hackathon Winner, Emines x ECC

01/2024

Fine-tuned the 'MIDEFICS' medical model in collaboration with Hugging Face, recognized by Yann LeCun.

Hackathon Winner, Mynk

12/2023

Recognized for exceptional performance and innovative problem-solving in data analysis.

Innovation Project, ECC

01/2022

First prize for the 'WaterMiner' project, highlighting technological innovation and impact.

CERTIFICATIONS

- Software Engineer Intern by HackerRank
- IBM Data Science by IBM
- Scrum Master By LearnQuest
- Google Project Management by Google