



MOHAMMED REDA BELFAIDA

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Grenoble, France

in mohammed-reda-belfaïda

BelfaïdaMedReda

PROFIL

As a 2nd-year engineering student specializing in Mathematical Modeling, Imaging, and Simulation, I am looking for a 6-month internship in the fields of Machine Learning and Deep Learning as part of a one-year professional gap.

TECH STACK

Coding Languages: Python, Java, R, C, SQL, CSS, HTML, JavaScript

Libraries& Frameworks: NumPy, Pandas, Matplotlib, PyTorch, Keras, Sickit-Learn, Tensorflow, Tailwind CSS, react.js

Tools: Git, Docker, PostgreSQL

SKILLS

Statistics

PDE Resolution

Operational research

Combinatorial Optimisation

LANGUAGES

English: Professional proficiency

French: Bilingual

Arabic: Bilingual

German: Beginner

MOST PROUD

- Awarded a merit scholarship.
- Ranked 217th out of 3,822 candidates in the French entrance exam (CCINP).
- Placed 4th out of 20 top regional participants in the Moroccan chess school championship in 2014.

EDUCATION

Engineering Diploma | Grenoble INP - Ensimag

September 2023 – Present

Grenoble, France

Preparatory Classes | Lycée Fauriel

September 2022 – 2023

Saint-Étienne, France

PROJECTS

Compiler for the Deca Language | Academic Project

December 2024 – Present

- Tools used: Maven, ANTLR, Git, Jacoco, NetBeans
- Developed in a team of 4 members, a compiler in Java to better understand programming languages and produce "zero-defect" code that complies with specifications.
- Preparation ongoing since September 2024 (project start planned for December 2024).

NBA Game Outcome Prediction | Personal Project

October 2024 – Present

- Tools used: TensorFlow and XGBoost.
- Data: Integration of data from the 2007-08 season up to the present day.
- Development of a machine learning model to predict NBA game outcomes (money line and over/under), achieving an accuracy of 69% on money lines.

Design of a Personal Portfolio (Personal Project) | Personal Project

October 2024 – Present

- Frameworks used: Tailwind CSS - React.js
- Development of a personal portfolio website to showcase my projects and skills.
- Focus on responsive design, user experience optimization, and performance.

Estimation of π by Monte Carlo | Personal Project

July 2024 – August 2024

- Tools Used: Python - PIL
- Developed an approximation of π using the Monte Carlo method.
- Visualization of results on a 7-segment display using PPM images, combined into an animated GIF.