

# BELFAIDA MOHAMMED REDA

☎ +33 7 69 09 71 54    ✉ Mohammed-reda.belfaida@grenoble-inp.org  
🌐 <https://belfaida-portfolio.vercel.app/>

## PROFILE

---

I am currently in my 2nd year at Ensimag, pursuing the Mathematical Modeling, Imaging, and Simulation track. Passionate about **Data Science** and **Machine Learning**, I am **looking for an 6-month internship starting in June 2025** to apply my knowledge and gain significant professional experience.

## EDUCATION

---

### Grenoble INP - Ensimag

*Engineering Program*

Grenoble, France

Sep. 2023 – Present

- **Relevant Coursework:** Statistical Learning, Machine Learning, Deep Learning, Object-Oriented Programming (Java / Python), Inferential Statistics, Probabilistic Models for Learning, Database Architecture, Introduction to AI

### Lycée Claude Fauriel

*Preparatory Classes for Engineering Schools MPSI/MP*

Saint-Étienne, France

Sep 2022 – June 2023

### Lycée Mohammed VI

*Preparatory Classes for Engineering Schools MPSI/MP*

Kenitra, Morocco

Sep. 2020 – June 2022

## PROJECTS

---

### Premier League Betting Prediction System

*Machine Learning, Deep Learning, System Design, Finance*

Dec 2024 – Present

*Personal Project*

- Developed a complete pipeline for collecting, preparing, and analyzing sports betting data.
- Implemented predictive models using XGBoost and LSTM neural networks.
- Applied financial strategies such as Expected Value and the Kelly Criterion for optimal bet sizing.
- Built a Flask-based web dashboard for tracking predictions and performance.
- Automated daily workflows including data scraping, model training, and prediction generation using orchestration tools.

### Database Design and Management Project

*PL/SQL, PostgreSQL, Java*

Nov 2024 – Dec 2024

*Academic Project*

- Designed a database management application for a company that operates an auction sales service.
- Chose the database architecture and implemented the functionalities in PL/SQL.
- Implemented a Java/JDBC demonstrator to interact with the database and test its features.

### Personal Portfolio Design

*Next.js, React.js, Tailwind CSS*

Sept 2024 – Oct 2024

*Personal Project*

- Developed a personal portfolio using Next.js, React.js, and Tailwind CSS for a modern and responsive design.
- Implemented a contact form with submission management to facilitate communication using emailJS.
- Optimized performance and accessibility for a better user experience.
- Deployed the project via Vercel.

### Content-Based Movie Recommendation System

*Machine Learning - Natural Language Processing - Python - Streamlit*

June 2024 – Aug 2024

*Personal Project*

- Created a movie recommendation system using Python and the Pandas library.
- Integrated the TMDB API for real-time data retrieval, implementing a recommendation engine that displays the top five similar movies with their posters.

## DISTINCTIONS

---

**Scholarship awarded** by the Moroccan and French governments

**Ranked 217th** out of **3,822** candidates in the engineering school entrance exam **CCINP**

**Ranked 4th** in the Moroccan National School Chess Championship, **2014** edition

## SKILLS

---

**Programming Languages:** Python, Java, PL/SQL, R, HTML, CSS, JavaScript

**Frameworks and Tools:** PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy, Keras, React.js, Next.js, Node.js, Tailwind CSS

**Languages:** French (Bilingual), Arabic (Bilingual), English (Professional Proficiency), German (Beginner)