

BELFAIDA MOHAMMED REDA

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🌐 <https://belfaida-portfolio.vercel.app/>

SUMMARY

Final-year AI engineering student at Grenoble INP – Ensimag, specializing in **Machine Learning and Data Science**. Seeking a 6-month internship starting **February 2026** to deliver impactful, data-driven solutions.

EDUCATION

Grenoble INP - Ensimag

Grenoble, France

Engineering Degree in Computer Science – MSc specialization in Artificial Intelligence (M2AI)

2023 – Present

- **Relevant Coursework:** Advanced statistical Learning, Machine Learning, Deep Learning, Causal Learning, Optimization, Online Learning, Natural Language Processing, Computer Vision, Graphs for Machine Learning

Lycée Claude Fauriel

Saint-Étienne, France

Preparatory Classes, Mathematics, Physics, Computer Science

2022 – 2023

Lycée Mohammed VI

Kenitra, Morocco

Preparatory Classes, Mathematics, Physics, Computer Science

2020 – 2022

PROFESSIONAL EXPERIENCE

Wafa Gestion - Attijariwafa Bank

Casablanca, Morocco

Financial Machine Learning Intern

Jul. 2025 – Sep. 2025

- Developed a predictive model for the policy rate, combining macroeconomic indicators with sentiment analysis of textual data (economic media, financial publications).
- Designed a full NLP pipeline for data collection, preprocessing, and modeling, tailored to the linguistic and contextual specificities of the Moroccan corpus.
- Implemented statistical forecasting and Bayesian machine learning methods to provide probabilistic forecasts with uncertainty quantification.

RELEVANT PROJECTS

Molecule Retrieval using Natural Language Queries

Grenoble, France

Natural Language Processing, Graph Learning

Oct. 2025 – Present

- Exploring text–graph representation learning to enable molecule retrieval from natural language queries.
- Investigating contrastive learning, multimodal embeddings, and pre-trained encoders (BERT, GCN, GAT).
- Designing a prototype framework integrating textual and molecular graph data for information retrieval tasks.

RAG Chatbot using AWS Bedrock

Grenoble, France

Applied NLP, Generative AI, AWS

Sep. 2025 – Oct. 2025

- Designed and deployed a retrieval-augmented chatbot using AWS Bedrock, integrating embedding-based retrieval, vector storage, and contextual LLM response generation.
- Experimented with domain-specific data (financial/economic reports) to improve response relevance and grounding accuracy.

DISTINCTIONS

- **Ranked 217/3822** – French Engineering Entrance Exam (CCINP, 2023)
- **Scholarship recipient** – Moroccan & French governments (academic merit)
- **Competitive Chess** – Ranked 4th nationally, Morocco (2014)

SKILLS

- **Programming Languages:** C/C++, Python, Java, JavaScript, PL/SQL, R
- **DevOps Tools:** Git, Github, AWS, Docker, Kafka
- **Machine Learning Frameworks:** Scikit-learn, PyTorch, Keras, Tensorflow
- **Data Analysis Frameworks:** Pandas, Matplotlib, Seaborn, Scipy
- **Web Technologies:** Tailwind CSS, React.js, Next.js
- **Languages:** French (Bilingual), Arabic (Bilingual), English (Professional Proficiency), German (Beginner)