Engineering Student in Artificial Intelligence and Optimization *Ahmed Bennasser* ⊕ Portfolio

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Computer science and applied mathematics student, passionate about Artificial Intelligence and optimization, seeking an internship to apply my technical skills in AI, and take on challenges in a stimulating professional environment.

ACADEMIC BACKGROUND

- **2024 – Present**: Computer Science and Applied Mathematics Engineer, specialization Mathematical Modeling, Simulation and Artificial Intelligence, **ENSIMAG**   Grenoble

- **2022 – 2024**: Preparatory Class, MP track, at Lycée Mohammed VI of excellence **Lydex**

PERSONAL PROJECT

in progress   Sentiment Analyzer : climate change

sentiment analysis applied to climate issues with promising results using PyTorch, Transformers, Pandas, RNN(vanilla), LSTM, BERT/transfer learning and data augmentation.

September 2025   Computer Vision Project – Deep Learning on x-rays:

Classification of 20,000 chest x-rays into four categories (COVID-19, Normal, viral, other anomalies) with data augmentation, using Python, PyTorch, Pandas, CNN/transfer learning and os for file manipulation. **NoteBook git repository**

ACADEMIC PROJECTS

In progress   Development of a Java compiler for a Java sub-language

- Languages: Java, Javac, GitHub
- Dual competency: Developer - Tester

May 2025   Creation of a Graphical Interface Library

- Tools: C language, CLion, GitHub
- Development of a graphical library in C, managing events and classes.
- Collaborated in team via GitHub. **git-repository**

April 2025   Design of a RISC-V processor and C code conversion to Assembly

- Tools: VHDL, Assembly, C language, Github
- *Result*: Functional processor with optimized execution on FPGA **git-repository**

April 2025 Statistical Modeling of German Tanks

- Analysis of historical data with statistical simulations in R.
- Tools: R, LaTeX, **git-repository**

CERTIFICATES

- **Neural Networks and Deep Learning**, DeepLearning.ai.
- **Introduction to Deep Learning and PyTorch**, Coursera.
- **Introduction to Machine Learning**, Kaggle.
- **Deep Learning**, Fidle CNRS. **Python**, Kaggle.

- **Quantum Mechanics**, University of Colorado Boulder.
- **Quantum Information** IBM.
for more details

Skills: football coach at INP8

-**Languages**: Python, C, Java, SQL, PyTorch, VHDL, Assembly
- **Libraries**: NumPy, Pandas, Scikit-learn

- **Tools**: R, SQL developer, Git/GitHub, Jupyter, VSCode
- **Soft skills**: Communication, teamwork

LANGUAGES

French: Fluent   **Arabic:** Native language   **English:** B1-B2 (in improvement).