

# Yassine Ben Jemaa

+33 6 95 97 70 21 | yass.benjemaa@gmail.com

Machine Learning Engineer seeking a professional experience starting  
March 2025

## Relevant Experience

### Koordinat, Machine Learning Engineer Intern - Copenhagen

May 2024 - Oct 2024

- implemented AI solutions and state-of-the-art methods for computer vision tasks and NLP tasks.
- Engineered features and built scalable pipelines for data preprocessing, model training, and evaluation to streamline ML workflows.
- Streamlined machine learning workflows, accelerating project delivery for client-facing AI solutions.
- Engaged in cross-functional collaboration to present AI capabilities and integrate feedback from technical and non-technical partners.

### Trimble, Software Engineering Intern - Paris

Jun 2022 - Jul 2022

- Contributed to the development cycle of 3D scanning and point cloud processing software.
- Created a Python and QML-based application to streamline data extraction processes, reducing data extraction time by half.
- Improved Quality Assurance workflows by implementing automated validation techniques for data integrity.

### Hi!ckathon, Hackathon with Schneider Electric - Paris

Nov 2023

- Enhanced technical skills in Machine Learning through hands-on challenges at a competitive hackathon.
- Demonstrated effective collaboration within a diverse team, achieving successful outcomes in a short timeframe.
- Gained proficiency in CUDA and GPU systems, optimizing algorithms for parallel processing.
- Finished in the top 5 out of 50 participating teams.

## Education

### MSc in Data Science, Ecole Polytechnique – France

Sep 2023 - Dec 2024

- **Coursework**: Deep Learning, Natural Language Processing (LLM and Transformers), Monte Carlo Methods to Data-based generative model, Hidden Markov models, Computer Vision, Causal Inference, Supervised and Unsupervised Learning, RAG.

### Applied Mathematics and Statistics Engineering Degree, Telecom SudParis – France

Sep 2021 - Dec 2024

- **Coursework**: Reinforcement Learning, Data Mining, Bayesian Estimation in Markovian Models and Web Architectures
- Modules include: Sustainable Development, Business Law, Economic Performance, and Quality Management.

### A 2-year intensive Mathematics and Physics course, achieved with the highest honors, Paris

Sep 2019 - Jun 2021

- Preparation for the selective entrance examination to French engineering schools (MPSI-MP\*).

## Projects

### Machine Learning Project with Michelin

Jan 2024 - Mar 2024

- Collaborated with Michelin on a project to implement a machine learning model for time series analysis.
- Developed and compared machine learning models, against traditional physical models based on integral and differential equations.
- Implemented advanced data preprocessing techniques, including time series filtration, to enhance the robustness and accuracy of the predictive models.

### Generative AI project

Oct 2023 - Dec 2023

- Implemented a generative AI model for extreme value samples for financial risk analysis.
- Programmed in TensorFlow and PyTorch, gaining hands-on experience with both deep learning frameworks.
- Developed a deep understanding of generative AI mechanisms and explored techniques for enhancing their performance.

## Skills

**Programming** Python (Scikit-learn, PyTorch, Tensorflow), SQL, R, Bash, Git, Docker, Jax, CUDA AWS.

**Tools** Jupyter Notebook, Pandas, QGIS, CUDA, CI/CD Pipelines, Visualization (Matplotlib, Seaborn), GCP.

**Soft Skills** Communication, Insightful, Business Acumen, Adaptability.

**Languages** French (Native), English (Fluent), Spanish (Intermediate), Arabic (Conversational).

## Certificates

### Deep Learning specialization - Coursera

2023

Neural Networks and Deep Learning, Hyperparameter Tuning, Regularization and Optimization.

### Advanced Planning and Management of Creativity and Brainstorming - MOOC

2021

- Developed skills in using a variety of tools and techniques for facilitating creativity sessions
- Acquired knowledge on how to manage and lead creative teams and innovative groups (Agile methodology).