Teo Moncada

teo@moncada.fr | +33 (0) 6 52 90 20 42 | [LinkedIn](#) | [GitHub](#)

MSc student in Machine Learning at Imperial College London with experience in deep learning pipelines and full-stack development. Active in the AI community, exploring agentic workflows and LLM applications.

EDUCATION

Imperial College London - MSc Environmental Data Science and Machine Learning   **2025 – 2026**
London, United Kingdom
- Modules: Machine Learning, Deep Learning, Environmental Data, Big Data Analytics, Optimization
- Led an 8-person team to design a deep learning pipeline for lightning strikes prediction, based on satellite imagery.
- Active member of Imperial AI Society; currently exploring agentic workflows through multiple side projects.
- GPA - 3.7/4.0

Ecole Centrale de Nantes - Applied Mathematics and Data Science Diploma   **2021 – 2025**
Nantes, France
- 3 years engineering diploma equivalent to a Master's Degree.
- 3rd year modules: fundamental mathematics, machine learning, data analysis, probability, Bayesian statistics.
- 2nd year modules: renewable energies (wind, solar and hydraulic), electrical grid, energy transition.
- Data Challenge: prediction of Paris' subway network crowds.
- Research Project: dimensionality reduction methods (K-PCA, UMAP, t-SNE).

Preparatory Classes (CPGE) - PSI*   **2019 – 2021**
Lycée Lakanal, France
- 2 years of highly selective undergraduate scientific classes preparing for the nationwide competitive exams to the "Grandes Ecoles", specialized in mathematics and physics.

RELATED EXPERIENCE

End-of-Studies Research Internship - EDF R&D   **April 2025 – Sept 2025**
Palaiseau, France
- Developed machine learning models to forecast cross-border electricity exchange capacities across Europe.
- Applied clustering techniques on flow-based market domains to identify structural patterns.
- Improved day-ahead electricity price prediction accuracy by 30% for EDF Trading.

Mobile App Full-stack Development - Gap year personal project   **Sept 2023 – August 2024**
Paris, France
- Designed and developed a fashion-focused social network application ([Weav](#)) from scratch.
- Built the front-end in React Native and the back-end in Node.js, with a MongoDB database.
- Implemented authentication, feed system, and user interaction features.

SKILLS AND INTERESTS

Coding Skills
- Python: most proficient language (scikit-learn, PyTorch, LangGraph).
- JavaScript & React Native: learned on a Udemy course, then applied to develop my mobile app.
- SQL: proficient knowledge acquired during preparatory classes and MSc.
- Git: version control for team projects and personal applications.
- Docker: basic knowledge.

Languages
- French - native
- English - fluent (TOEFL 109/120, TOEIC 970/990)