

Barthélémy Charlier

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Motivated, hard-working, and research-oriented 3rd year engineering student with strong communication and coding skills. Currently completing a Master 2 at PSL and seeking a 6 month research internship starting in spring to contribute to impactful technologies.

Education

Université Paris Sciences et Lettres *Sept 2025 – Sept 2026**Master 2 in Artificial Intelligence, Systems, Data*

- **PSL Master's degree** [🔗](#) coordinated by ENS, Mines Paris and Université Paris Dauphine
- **Coursework (so far):** Large Language Models, Reinforcement Learning, Deep Learning for image analysis, Data Science Lab, Fundamentals of ML, Optimization, Data acquisition, extraction, and storage

EURECOM - Institut Mines-Telecom *Sept 2022 – Sept 2026**Engineering Degree specialized in Data Science*

- **Relevant coursework :** Machine Learning and Intelligent Systems, Deep Learning and Algorithmic ML, Advanced Statistical Inferences,

CPGE PC - Lycée Pierre-Gilles de Gennes *Sept 2020 - Jul 2022*

Experience

Data Science Intern - Blunomy *Melbourne, Australia**Césura internship, Ref: Youssef Miftah (youssef.miftah@theblunomy.com [🔗](#))* *Feb 2025 – Aug 2025*

- R&D on a Bayesian Neural Network for electricity demand prediction : Performance analysis, metric design, and hyperparameter tuning.
- Led a study on the impact of humidity on electricity demand prediction across Queensland.
- Documented how the model responds to unseen temperature in short-term electricity demand prediction.

Data Analyst, International Junior of EURECOM *Sophia Antipolis, France**Contracted by the student-led company to provide a service for the institution* *Feb 2024 – Jun 2024*

- Implemented a data pipeline to display real-time energy savings on a presentation screen.

Freelance Developer, HOFFMAN.AI *Off-site / Paris, France**Following Summer Internship / Continued as Freelancer* *Jul 2023 – Dec 2023*

- Contributed to the development of a flight comparison platform using ReactJs, NextJs, and Node.js.

Projects

Research Project – Multimodal Stress Identification from Videos, Audio and *Feb 2024 – Jul 2024***Physiological Signals (with Missing Modalities)***Supervised by Maria A. Zuluaga (Maria.Zuluaga@eurecom.fr [🔗](#))), as part of the Inria &**EURECOM StressID project*

- Developed an RNN-based approach (GRU) for multivariate physiological time-series for stress recognition on the StressID novel dataset.
- Designed a data-handling system for corrupted EDA samples, yielding a +5% accuracy improvement over baseline ML models.

Spring Semester Project – AI Programming in Python, Connect 4 Game Ranked *Feb 2023 – Jun 2023**2nd out of 20 teams in the end-of-semester competition.*

- Implemented the AlphaGo Zero model for Connect 4, achieving a 90% improvement in competitiveness over the standard Minimax algorithm.
- Integrated the AI into an online multiplayer platform and successfully deployed it on a Raspberry Pi.

Student Association

Vice-President of the “Bureau des élèves” *Dec 2022 – Dec 2023*

- Collaborated with a diverse team, catering mainly to an international student body

Skills

LANGUAGES

English - Professional level, C1
 Italian - Upper-Intermediate, A2+
 French - Native

IT

SQL, Python, Dagster,
 SkLearn Pytorch, Pytorch
 Lighting, GCP, Polars
 L^AT_EX, Git

MISCELLANEOUS

Sailing – Very experienced
 Music – Bass & Singer at the Eurecom Music Club