








Profile

As a final-year **computer engineering** student at EPITA, currently completing a dual degree in **applied mathematics** and AI at Sorbonne University (Master IMA), I have developed **solid skills in mathematics, algorithms, and data science**.

My academic background and internship experiences, notably at BNP Paribas and Siemens Healthineers, have strengthened my interest in applying innovative technologies—especially AI and data-driven methods—to solve real-world problems in complex and regulated environments.

Contacts

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Technical skills

Langages : Python, SQL, C/C++, CUDA

Framework ML : PyTorch, TensorFlow, Keras, Pandas, Scikit-learn, Hugging face

Databases : MySQL, NoSQL (MongoDB, Neo4j, Elasticsearch)

Domaines : Deep learning, NLP, Computer vision

Languages

English : Professional Level (B2/C1) - TOEIC 815, Currently preparing for IELTS exam

Japanese : Competent level (Eastern section in middle/high school).

Yacine CADI-BOUREGHDA

Final Year Machine Learning Engineering Student @EPITA @ Sorbonne University | AI | Data science | Deep learning | Applied Mathematics

Education

Master's in Applied Mathematics and Machine learning 2024-Now Sorbonne University, Paris

Joint degree with Telecom Paris (IMAGE track) – dual degree with EPITA
Selected coursework : Pattern Recognition, Advanced Optimization, Advanced Image Processing Techniques, Computer Vision, Medical Imaging,

Master's in Computer Engineering 2022 - Now EPITA, Paris

Currently graduating from EPITA, a leading French school in computer science, with a 5-year engineering degree (Diplôme d'ingénieur) focused on AI, software development, and applied mathematics.

Major: Artificial Intelligence & Image Processing

ENSEEIH, Toulouse 2021 - 2022

One year in French "Grande école" offering high-level interdisciplinary training in AI, data science, and **mathematical modeling**.

Classes préparatoires CPGE (PCSI-PSI) 2019 - 2021 Lycée Michelet, Vanves

Advanced Mathematics and Physics,

Two-year intensive program for competitive engineering school entrance exams ("Grandes Écoles").

Experience

Siemens Healthineers, Princeton, USA Mar 2025 - Present End-of-Studies Research Internship

- Conducted research on state-of-the-art **diffusion models** for CT-scan denoising and super-resolution to enhance the quality of ultra-high resolution photon-counting CT images, combining recent advances in **deep learning and generative modeling for medical imaging applications**.
- Pytorch | Deep Learning | Image Processing | GAN | Transformers

EPITA R&D Laboratory, France Feb 2024 - Feb 2025 AI Research Internship

- Developped and implemented a **neural network for brain MRI** pathology segmentation, integrating **Monte Carlo Dropout** and **Deep Ensembles** to enhance prediction reliability., with the objective to identify tumors and predict their progression.
- TensorFlow | Keras | Image Processing | Deep Learning

BNP Paribas Sep 2023 - Jan 2024 Junior Data Engineer Internship

- Implementation of a data architecture using the Dataiku platform (open-source data science and AI tool)
- Redesign of Datamarts and ETL development
- Agile | SQL | Numpy | Pandas | Dataiku