Yacine CADI-BOUREGHDA

AI Research Intern at @SiemensHealthineers @EPITA @ Sorbonne University | AI | Data science | Deep learning | Applied Mathematics

Profile

As a final-year computer engineering student at EPITA, enrolled in a dual degree program at Sorbonne University (Master IMA), I have developed strong skills in mathematics, algorithms, and artificial intelligence. Currently completing my research internship at Siemens Healthineers in Princeton, I am highly motivated to continue my academic journey with a PhD centered on developing innovative AI solutions for practical and interdisciplinary challenges.

Contacts

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🌐 born Jan 14, 2001 (Age : 24)

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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).

Education

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

Joint degree with TelecomParis (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

ENSEEIHT, 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 Intership

- 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 dentify 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