

Abdelmalek Belghomari

Master's Student in Computer Science and Artificial Intelligence Engineering

✉ belghomariabdelmalek@gmail.com in Abdelmalek Belghomari 🔗 abdelmalekbelghomari

Experience

Le Crédit Lyonnais — [Payment Tribe](#)

Paris, France

Software Engineering Intern

March 2025 - Now

- Collaborating with **Payment** and **Credit Card** squads to enhance system functionality by maintaining critical backend services and implementing scalable features
- Using **Java**, **Spring Boot**, **Kubernetes**, **Docker**, **Kafka**, **PostgreSQL**, **Gitlab CI/CD**

Shibaura Institute Of Technology — [Neural Information Systems Laboratory](#)

Tokyo, Japan

Research Intern — Supervisor: ✉ PhD Ryosuke Hosaka

May 2024 – Aug 2024

- Developed a **Liquid State Machine**, achieving accurate predictions for chaotic time-series data.
- Implemented **Machine Learning**, **Deep Learning**, and **Reservoir Computing** models with **Spiking Neural Networks**, advancing neuromorphic computing research
- Demonstrated a **rapid learning curve** and adaptability to new fields, tools, and programming languages

Projects

AI Facial Recognition Solution — [ENSICAEN & GripID](#) — 1st Place

2025

- Developed a facial recognition solution for GripID's biometric authentication system
- Achieved **99.8% accuracy** on the LFW dataset using **InceptionResNetV1**

Entrepreneurship Project — [Orange Innovation Academy](#)

2024 - Now

- Pitched my project idea, set up a business plan and developing innovative services
- Currently developing a web-app platform for my project idea and **managing a group of 6 people**

Chatbot AI — [LCL Hackathon & Google Cloud](#) - Ranked: 3rd

Sept 2024

- **Fine-tuned** Gemini-AI using GCP and Langchain

AI-Driven Keystroke Analysis for Person & Text Recognition [GREYC](#)

2023 - 2024

- Worked on **CNNs** and **Transformers** (CoAtNet) for sound recognition
- Achieved signal processing to detect keystrokes from a laptop microphone capturing the ambient noise

ENSICAEN Goose Game — [Academic project](#)

2023

Education

National Engineering School of Caen ([ENSICAEN](#)) — GPA:4.0/4.0 - Ranked: 5/55

Caen, France

MEng in Computer Science majoring in Artificial Intelligence, Image and Sound

Sept 2021 – Aug 2025

- **Coursework:** **Machine Learning**(A.Lechervy), **Deep Learning**(L.Simon), Image Processing(Y.Queau), **Software Architecture**(R.Clouard), **Software Development**, Pattern Recognition(L.Brun), 3D Image Synthesis(L.Simon), Computer Architecture, **Data Mining**(C.Rosenberger)

[Théophile Gautier Preparatory Classes](#) — High Honours

Tarbes, France

Preparatory School for top-ranking French establishments

Sept 2018 – June 2021

- **Coursework:** **Algebra**, **Analysis**, **Computer Science**

Skills

Languages: French (native), **English (Fluent)**, Spanish (Intermediate), Japanese (Beginner)

Programming : C, C++, **Python**, Java, React.js, PHP, SQL, Kotlin, Swift, MATLAB

Technologies: **TensorFlow**, **PyTorch**, Scikit-Learn, Pandas, Google Cloud, Qt, JavaFX, Jakarta EE

Interests: Swimming (Top 160 world at my best), Entrepreneurship, Working-out, Fashion, Cuisine