

# Youssef MILED

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## SUMMARY

MEng Operations Research student with AI expertise and software development experience, building scalable systems. Seeking new grad roles in ML engineering, applied science, data science, or software development.

## EDUCATION

- UC Berkeley, *MEng in IEOR*, California, USA

Aug 2025 – May 2026

  - Relevant Coursework:** ML and Data analytics, Mathematical Programming (PhD level), Applied Stochastic Processes (PhD level).
  - Teaching assistant for the course "Computer Simulations with Jupyter Notebooks" (Fall 2025).
- Centrale Lyon, *Engineer's degree*, Lyon, France

2023 – 2025

  - General Engineering, Applied Mathematics, Computer Science.
  - Teaching assistant in Signal Processing for final-year undergraduate students (Fall 2024).
- Lycée Champollion, *MP2I/MPI preparatory program*, Grenoble, France

2021 – 2023

  - Grade: A (1st/46)
  - Intensive 2-year program for the highly competitive entrance exams to the French Engineering Schools, spanning Mathematics, Physics, and Computer Science.

## SKILLS

Programming	Python, C/C++, SQL, OCaml, Matlab, Java, JavaScript, HTML, CSS
ML	NumPy, Pandas, scikit-learn, PyTorch, OpenCV, OpenVINO
Tools / Platforms	Docker, Git, Jupyter Notebook, Ubuntu, LaTeX
Languages	English: <i>Fluent</i> , French: <i>Fluent</i> , Arabic: <i>Native</i> , Spanish: <i>Professional proficiency</i>

## PROFESSIONAL EXPERIENCE

- AI research intern, CISPA HELMHOLTZ CENTER FOR INFORMATION SECURITY

May 2025 – July 2025

Saarbrücken, Germany

*Supervisors: Franziska BOENISCH, Adam DZIEDZIC*

  - Researched parameter-efficient fine-tuning and smooth cascade unlearning through reversed self-distillation to make LLMs forget private data, showing that standard cascading between unlearning methods adds privacy risks.
  - Implemented in-context unlearning and membership inference attacks on the new smooth cascading method, achieving 1.2% TPR at 1% FPR.
  - Contributing to an ICLR 2026 submission in collaboration with Prof. Boenisch, Prof. Dziedzic; part of CISPA, ranked first globally in cybersecurity.

## PROJECTS

- Small Language Models for Edge AI in Space, *Satlyt*, San Francisco, USA

Sep 2025 – May 2026

*Capstone project. Supervisor: Rama AFULLO*

  - Project with UC Berkeley and Satlyt, focusing on prototyping a ground-based system simulating Small Language Models deployment on satellites for onboard decision-making, using AWS IoT Greengrass and OpenVINO.
  - Designing lightweight AI models and deploying them on satellite hardware to process data locally, reduce latency, and enable autonomy in orbit.
- Data analysis for table tennis matches, *LIRIS*, Lyon, France

Sep 2024 – April 2025

*Research project. Supervisor: Romain VUILLEMOT*

  - Developed physics-based models and leveraged player performance data to pinpoint bounce uncertainty zones and strike timing patterns, enabling more accurate player classification and strategic insights.
  - Engineered and enriched a dataset of 8,679 shots from professional matches; reconstructed 3D ball trajectories via physics simulations and achieved high-precision validation against ground truth using RMSE metrics.