

# Lounès Meddahi

## Education

- 2022–Present **M.Sc. in Computer Science**, *École Normale Supérieure de Rennes*, Rennes, France  
The École normale supérieure de Rennes prepares, through a high-level cultural and scientific training, students for fundamental or applied scientific research.
- 2019–2022 **B.Sc. in Mathematics and Computer Science**, *University of Lille*, Lille, France  
Summa cum laude.  
B.Sc. thesis : A Proof of Identification for a blockchain based LoRaWAN join procedure.

## Experience

- 2022–Now **Deep Learning researcher**, *IRISA – EMPENN*, Rennes, France  
Deep Learning for chronic stroke lesion segmentation in brain MRI (Python, Keras).
- 2022 **Blockchain Research Intern**, *IMT Nord-Europe – CERI SN*, Villeneuve d'Ascq, France  
3-month state-of-the-art research in blockchain applied to IoT network performance.  
Detailed achievements:
  - Design and development of a new method based on blockchain to improve performance in IoT networks.
  - End-to-end development (Python): model design, tests and results.
  - Submission of results to an international conference; Source code shared in open source.
- 2021 **Reinforcement Learning Intern**, *University of Lille – CRISAL*, Villeneuve d'Ascq, France  
2-month discovery internship in research and Reinforcement Learning.  
Detailed achievements:
  - Reading and implementation of different algorithms from the scientific literature (Python).
  - Interpretation and in-depth study of the algorithms; Source code shared in open source.

## Skills and Interests

- Languages French (Native), English (Proficient), Spanish (Basic)
- Coding Python, C, Java
- Libraries tensorflow, keras, scikit-learn
- Skills Reinforcement Learning (Q-Learning, Monte-Carlo), Deep Learning (U-net, nnU-net)