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LounesMeddahi
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EU citizenship (French)

Lounes Meddahi

Summary

Passionate about Machine Learning, I am particularly interested in improving learning methods in complex environments. With a strong commitment to research and its applications, I aim to improve and create novel algorithms and techniques that deepen our knowledge of learning processes.

Experience

02.2024–*08.2024*,Full-time **Applied Research Intern**, *Sony AI*, Tokyo, Japan
Working on new techniques for automatic dish evaluation in Sony's Gastronomy Project.

05.2023–11.2023,Full-time **Applied Research Intern**, *InstaDeep*, Paris, France
Implementing reinforcement learning train scheduling algorithms in collaboration with Deutsche Bahn.
- Pivotal roles at InstaDeep: Contributing to the InstaDeep x BioNTech hackathon, Workshop retreats in Berlin for the CTMS project, Nominated and Elected **AI Expert** for the CTMS initiative.
- Authored a research paper to share and present my work.

09.2022–04.2023,Part-time **Research Assistant**, *INRIA – EMPENN*, Rennes, France
Research assistant focused on using deep learning for segmenting strokes in medical imaging.
- Proposed and developed a novel approach for multi-modality stroke segmentation.
- Authored and soon submitted a research paper.

06.2022–08.2022,Full-time **Research Intern**, *IMT Nord-Europe – CERI SN*, Villeneuve d'Ascq, France
Research internship centered on advancing IoT security and scalability using blockchain.
- Publication of results and selected **Best paper award** at IEEE ISNCC'23.

06.2021–07.2021,Full-time **Intern**, *INRIA – Scool*, Villeneuve d'Ascq, France
Discovery internship in research and reinforcement learning.
- Interpretation and in-depth study of reinforcement learning algorithms and environments; Source code shared in open source.

Education

09.2022–*09.2025* **M.Sc. in computer science (Track "Normalien")**, *ENS Rennes*, Rennes, France
Master's degrees in computer science and mathematics from France's top scientific school.

09.2019–06.2022 **B.Sc. in mathematics and computer science (Summa Cum Laude).**, *University of Lille*, Lille, France

Publications

[2] **[Oral presentation] Enhancing stroke lesion detection and segmentation through nnU-net and multi-modal MRI Analysis**
Lounes Meddahi, Stéphanie s Leplaideur, Arthur Masson, Isabelle Bonan, Elise Bannier, and Francesca Galassi, 13th World Congress for Neurorehabilitation (WCNR'24), 2024.

[1] **[Best paper award] Leveraging blockchain for a robust and scalable device identification in LoRaWAN**
Lounes Meddahi, Ahmed Meddahi, Patrick Sondi and Fen Zhou, 10th International Symposium on Networks, Computers and Communications (ISNCC'23), **Best paper award**, top 4 out of 404, 2023

Skills and Interests

Languages: French (Native speaker), English (Proficient: TOEIC C1 and IELTS C1)
Relevant Courses: Reinforcement Learning, Deep Learning, Game Theory, Computer Graphics. Details.
Programming: Python, C, Java
Interests: Programming, Epystemology