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LounesMeddahi
LounesMD
EU citizenship (French)

Lounes Meddahi

Experience

02.2024–08.2024, Full-time
Research Intern, *Sony AI*, Tokyo, Japan
Worked on new models for gastronomic plates quality evaluation within Sony's Gastronomy flagship project
- Developed parameterized models for plates local evaluation and overall balance evaluation.
- Authored a technical report sharing my work.

05.2023–11.2023, Full-time
Applied Research Intern, *InstaDeep*, Paris, France
Collaborated with Deutsche Bahn to implement reinforcement learning algorithms for train scheduling.
- Adapted MuZero, a Monte-Carlo based algorithm, for optimizing train trajectory planning.
- Authored a research report presenting 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 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

09.2024–*09.2025*
M.Sc. in Mathematics (Master MVA), *ENS Paris-Saclay (France)*
Master's degrees in mathematics, machine learning, and computer vision (Master MVA) from France's top scientific school.

09.2022–*09.2025*
M.Sc. level in Computer Science (Diplôme de l'ENS), *ENS Rennes (France)*
Research oriented degrees in computer science from France's top scientific school.

09.2019–06.2022
B.Sc. in Mathematics and Computer Science (Summa Cum Laude), *University of 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: Deep Learning, Computer Vision, Robotics, Reinforcement Learning, Game Theory, Software
Programming: Python, C, Java
Interests: Programming, Epystemology