Lounes Meddahi

Experience

02.2024-08.2024, Applied Research Intern, Sony AI, Tokyo, Japan

ıll-time Implemented a scoring pipeline for automatic plates evaluation within Sony's Gastronomy flagship project

Developed a set of metrics for a local score and an overall balance function of robot-made plates.

05.2023–11.2023, **Applied Research Intern**, *InstaDeep*, Paris, France

Full-time 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, Research Assistant, INRIA – EMPENN, Rennes, France

Part-time Research assistant focused on using deep learning for segmenting strokes in medical imaging.

O Proposed and developed a novel approach for multi-modality stroke segmentation.

Authored a research paper.

06.2022-08.2022, Research Intern, IMT Nord-Europe - CERI SN, Villeneuve d'Ascq, France

Full-time 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, Intern, INRIA – Scool, Villeneuve d'Ascq, France

Full-time 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 (MVA Master), ENS Paris-Saclay (France)

Master's degrees in mathematics, machine learning, and computer vision (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 Reinforcement Learning, Deep Learning, Game Theory, Computer Graphics. Details.

Programming Python, C, Java

Interests Programming, Epystemology