Yassine Machta

Last built on October 3, 2024. Underlined text indicates clickable links For latest version click *here*

GitHub In LinkedIn I machtayassine@gmail.com ♥ Personal page

Education

<u>ENSAE Paris</u> 2021-2025

Engineering Curriculum: Data Science, Statistics and Learning. GPA: 3.8

Institut Polytechnique de Paris

Masters 2 Data Science

2024-2025

Work Experience

Research Intern | Sony R&D | Letter of recommendation

Stuttgart, January 2024 - June 2024

- * Conducted experiments to understand and benchmark the impact of uncontrolled environments and the properties of 2D images on 3D reconstruction.
- * Created a fully automatic pipeline from image preprocessing, to 3D object reconstruction, and automatic mesh processing for quality evaluation purposes.
- * Deployed an internal visual webapp to automate mesh alignment and comparison for the engineering team.

 Supervised by Facius, Z and Franchesci, R

Research Intern | Inria - SIMBIOTX | Pytorch, 3D, Image processing, Segmentation Paris, May 2023 - November 2023

- * Implemented and benchmarked the impact of Topology preserving losses on improving accurate 3D liver vessel segmentation and connectedness.
- * Developed an image processing algorithm to transform single label vessel datasets into two-label datasets separating the portal and hepatic trees.
- * Conducted a comprehensive statistical analysis of the morphometry of the obtained vessel trees while training a network to recognize perfusion volumes of the vessels.
- * Published my first paper to MICCAI 2024 accepted to ADSMI workshop. Presented at Poster session.

Supervised by Ali, O and Vignon-Clementel, I.

Data Science Intern | Cour Des Comptes | R. Sphinx

Paris, June 2022 - September 2022

* Conducted comprehensive data analysis on R, utilizing cartography and descriptive statistics techniques to create an overview of the French Airport Network.

Supervised by Grignon, P



Programming: Python (PyTorch, Scikit learn/image, Selenium, pandas, Numpy, matplotlib), Git, Slurm, Linux. learning C + +, Godot and a bit of JS/CSS

■ Projects

- Paper reimplementation "Unsupervised Multi Modal Translation". Recipe generator and supermarket recommender according to fridge inventory, spatial proximity to supermarkets and diet, Time series forecasting, Monte Carlo simulations of the Lotka-Volterra model.
- Swarm intelligence search and rescue competition to experiment with multi agent reinforcement learning and trying to apply it to a personal game development project

Clubs Sports and student Councils | Event organization 2022-2023 ENSAE English Debating Team | 2022-2023 Winners of the 2023 Grandes Ecoles FDA Tournament Languages Arabic (Native) French (Native) English (C1) Spanish (A2)