





Yassine Machta

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INTERESTS

Currently working towards a PhD. Looking for a 3-month internship for this Summer (July-September) in Paris or Tunis. I am curious about Robotics, Machine perception and intelligence, Graphics and Rendering. I am also passionate about adaptive and immersive narrative and characters in interactive media.

EDUCATION

ENSAE Paris <i>Engineering Curriculum : Data Science Statistics and Learning. GPA: 3.8</i>	2021-2025 <i>Planning to pursue research</i>
Lycée Pierre de Fermat <i>Undergraduate intensive course in advanced Maths and Physics</i>	2019-2021

WORK EXPERIENCE

Research Intern Sony R&D NeRFs	Stuttgart, January 2024 - June 2024
<ul style="list-style-type: none">Created a fully automatic pipeline from image preprocessing, to 3D object reconstruction for evaluation purposes Supervised by Facijs, Z and Francheschi, R	

Research Intern Inria - SIMBIOTX <i>Pytorch, 3D, Image processing, Segmentation</i>	Paris, May 2023 - November 2023
<ul style="list-style-type: none">Implemented and benchmarked the impact of Topology preserving losses on improving accurate 3D liver vessel segmentation and connectedness. Currently investigating additional methodsDeveloped an image processing algorithm to transform single label vessel datasets into two-label datasets separating the portal and hepatic treesConducted a comprehensive statistical analysis of the morphometry of the obtained vessel trees while training a network to recognize perfusion volumes of the vessels. Currently writing my first paper. Supervised by Ali, O and Vignon-Clementel, I	

Data Science Intern Cour Des Comptes <i>R, Sphinx</i>	Paris, June 2022 - September 2022
<ul style="list-style-type: none">Designed and distributed a survey using Sphinx to assess public sentiment towards Paris' RER system and satisfaction with the metrics used by transporters.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	

SKILLS

Programming: Python(PyTorch, Sickit, 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.
- Currently involved in a Swarm intelligence search an rescue competition to experiment with multi agent reinforcement learning and trying to apply it to a personal game development project

CLUBS

ENSAE English Debating Team | 2022-2023
[Winners](#) of the 2023 Grandes Ecoles [FDA](#) Tournament

IP Paris Racing Team | 2023-present
I joined the **Driverless** team to deepen my skills in computer vision and model deployment.

LANGUAGES

- Arabic** (Native)
- French** (Native)
- English** (C1)
- Spanish** (A2)