JOCERAN GOUNEAU

CONTACT

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SKILLS

Languages : Python, Java, Matlab, C/C++, Julia, OCaml, Ada
Frameworks : Tensorflow, Keras, Pytorch, OpenCV, OpenMP
Theoretical : ML, Neural Networks, PCA, Optimization, Statistics, Parallel Computing, Finite Elements Method, Software Testing
Project management : Agile, Git, Obsidian, Notion, GTD

LANGUAGES

French : native
English : C1, Cambridge Certificate
Spanish - Japanese : notions

PERSONAL

Sport : track and field, gymnastics
Music : guitar, piano, production (Ableton)
Graphics : drawing (Photoshop), video editing (Premiere Pro)

EXPERIENCE

Research Internship - Short Term Anticipation

I²R - A*STAR, Singapore | 2023 (6 months)

- working on the state of the art of the Short Term Action Anticipation task of the EGO4D dataset
- achieving 3rd place on the public leaderboard using a multimodal Transformer in place of a ROI Pooling layer
- unexpected 3 months in remote due to a delay in the work pass delivery ; adjustment of my tasks to this setup : literature review and first implementations and tests in Google collab
- 3 months in Singapore with a workstation to setup for myself : code improvements and full-scale experiments conducted in autonomy

→ adaptability, autonomy, understanding and work on the SOTA of a given problem, technical communication in English

Research Aide - DeepHyper

ANL, Lemont, USA | 2021 - 2022 (11 months)

- remote work with the team developing DeepHyper, a scalable python package for AutoML
- improving the scalability and robustness of the package
- developing benchmarks and tools for visualization and evaluation of algorithms performances
- application of this tool on the problem of plasma disruption detection in nuclear fusion tokamaks in a collaborative work with another scientific team

→ technical communication in English, autonomy in a context of remote work, teamwork on an ongoing and old project

Research Internship - Semi-Supervised YOLOv2

IRIT, Toulouse, France | 2021 (2 months)

- implementation of YOLOv2 with TensorFlow
- implementing and testing a semi-supervised learning method proposed by Google Research for object detection

→ scientific paper reading, architecture of a complex code

EDUCATION

Compter Science Engineering School

ENSEEIHT, Toulouse | 2019 - 2023

Image & Multimedia Specialization : Machine Learning, Optimization, Parallel Computing, Modelling, Numerical Analysis, Rendering, Probabilities, Statistics, Software Testing.

Classe Préparatoire aux Grandes Écoles

Lycée Carnot, Dijon | 2017 - 2019

Mathematics, physics and engineering.