

Christophe Marabotto

AI Research Engineer

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Driving license B et A
First aid at work



Education

- 2018–2021 **Master of Science (MSc), EPITA, specialized in Data Science and Artificial Intelligence (SCIA), Paris, France.**
Main subjects: Mathematics, Algorithmics and Data Science.
- 2016–2018 **Preparatory Classes (PCSI/PSI), Lycée Alphonse Daudet, Nîmes, France.**
Main subjects: Mathematics, Physics and Engineering Sciences.

Experience

- 2021–Present **IRT Saint Exupéry, Sophia Antipolis, France, AI Research Engineer.**
RAPTOR: Development and deployment of Deep Learning models for non-cooperative spacecraft rendezvous missions (Pose Estimation). Design of a synthetic dataset. Optimization and deployment on GPU and FPGA targets.
Confiance.ai (Grand Défi "Securing, certifying and enhancing the reliability of systems based on artificial intelligence"): Development of a test bench for optimizing and evaluating neural networks on FPGAs using the Vitis AI. Study of semantic preservation.
- 2021 **Airbus Defence and Space, Sophia Antipolis, France, Data Scientist, End-of-studies Internship (6 months).**
Semantic segmentation of high-resolution satellite images using Deep Learning with an Agile team.
- 2020–2021 **Ipsos Santé, Paris, France, End-of-study project.**
Unsupervised clustering of medical reports using Topic Modelling techniques with a team of 4.

- 2019–2020 **Hexaglobe, Paris, France, Data Scientist, Internship (5 months).**
Anomaly detection using Deep Learning for a streaming service for both marketing analysis and breakdown prediction using Keras, Kafka and Google Cloud Platform.

Languages

- French Native
English Full professional proficiency
Spanish Professional working proficiency

Technical skills

- Maths Numerical Optimization, Statistics, Image Processing, Signal Processing
- Programming Python, C++, C, Java, CUDA, Scala, Shell Scripting, \LaTeX
PyTorch, Tensorflow, Scikit-Learn
- Machine Learning
- Hardware Xilinx Kria KV260 et ZCU104 (Ultra-scale+), NVIDIA Jetson AGX Orin (GPU), Arduino, Raspberry Pi
- Drone Flight Controller (Mamba F405 MK2, GOKU GN 405S 20A AIO), Flight Control Software (Betaflight, INAV)
- Tools Pandas, OpenCV, Matplotlib/Plotly, Valgrind, QGIS, Docker, gRPC, Tableau, Flask, Git, Office
- Cloud Computing Google Cloud Platform, Amazon Web Services, Microsoft Azure
- Project Mngt Agile Scrum (Jira, Confluence)

Others

- Sports Martial Arts (Ju-jitsu, Systema, Boxing and HEMA)
- Making FPV Racing Drone and 3D printing
- Art Music Production, 3D Printing, domotics