

Marius Dragic

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[LinkedIn !\[\]\(919a2cb85b99741a73c0c31a427236a8_img.jpg\)](#) [Github !\[\]\(c9cd5a1c35167a83f09a35036fe5dcbd_img.jpg\)](#)



Education

CentraleSupélec , Gif-sur-Yvette, France Master's-level Engineering Degree (<i>Grande École</i>) Major: Data Science (SDI) — Track: Math Modeling (MDS)	<i>2022 – 2025</i>
<ul style="list-style-type: none">◦ GPA: 4.0/4.0 (Top 1%)◦ Mathematics: Stochastic Calculus, PDEs, Probability Theory, Statistics, Optimization, Signal Processing◦ Computer Science & AI: Deep Learning, Reinforcement Learning, Computer Vision, NLP, LLM◦ Research initiation focused on statistical learning and modeling. See Academic projects .	
Preparatory Class PT* , Lycée de Cachan — majors: Math, Physics, Engineering Lycée St-Thomas de Villeneuve — Scientific French Baccalaureate, Highest Honors	<i>2020 – 2022</i> <i>2018 – 2020</i>

Professional Experience

Thales , Vélizy, France AI Research & Vision Team – Autonomous Train Project, 3-year R&D apprenticeship	<i>2022 – 2025</i>
<ul style="list-style-type: none">◦ Designed Computer Vision models for real-time obstacle detection and scene understanding in railway systems.◦ Built a Retrieval-Augmented Generation (RAG) pipeline with LLM integration for intelligent document search and reasoning.◦ Developed Generative AI (GenAI) frameworks using Latent Diffusion Models (LDM) and ControlNet to synthesize rare visual scenarios enhance training datasets.◦ Collaborated with ML researchers and embedded engineers to deploy production-grade AI modules.	

Academic Projects

Latent Distance for Time Series	<i>2024 – 2025</i>
<ul style="list-style-type: none">◦ Learning a structured latent space via a convolutional autoencoder, whose geometry is coherent with the notion of distance between temporal series.◦ Application to anomaly detection on synthetic signals and ECG data — paper in progress.	
Multi-Asset Trading via Deep Reinforcement Learning	<i>2024 – 2025</i>
<ul style="list-style-type: none">◦ Designed intelligent trading strategies in commodity markets using deep reinforcement learning agents, accounting for portfolio dynamics.◦ Rigorous backtesting using financial metrics: annualized returns, volatility, Sharpe ratio.	

U-Net Segmentation with Mathematical Morphology Modeling	<i>2024 – 2025</i>
<ul style="list-style-type: none">◦ Conducted research on precise segmentation of thin retinal vessels from biomedical images.◦ Mathematical morphology modeling techniques to enhance segmentation accuracy and structural continuity.	

Technical Skills

- **Programming Languages:** Python (PyTorch, TensorFlow, Pandas), SQL, Bash, LaTeX
- **Tools & DevOps:** Docker, Git, Bitbucket, Jenkins
- **Web Development:** HTML/CSS, JavaScript, React, REST APIs

Leadership & Volunteering

President , Student Union, CentraleSupélec – Managed a team of 20 members.	<i>2022 – 2023</i>
Humanitarian Project in Cambodia – NGO "Les Enfants de Klang Leu"	<i>2019 – 2022</i>

Languages

French: Native

English: C1+ (Cambridge)

Serbian: B1+

Spanish: B1