

Marius Dragic



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Education

CentraleSupélec, Gif-sur-Yvette, France

2022 – 2025

Master's-level Engineering Degree (*Grande École*)

Major: **Data Science (SDI)** — Track: **Math Modeling (MDS)**

- **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

2020 – 2022

Lycée St-Thomas de Villeneuve — Scientific French Baccalaureate, **Highest Honors**

2018 – 2020

Professional Experience

Thales, Vélizy, France

2022 – 2025

AI Research & Vision Team – Autonomous Train Project, **3-year R&D** apprenticeship

- 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 to enhance training datasets.
- Collaborated with ML researchers and embedded engineers to deploy production-grade AI modules.

Academic Projects

Latent Distance for Time Series

2024 – 2025

- 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

2024 – 2025

- 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.

Supervised Fine-Tuning of SLM Qwen2.5-1.5B for Document Summarization

2024 – 2025

- Built an end-to-end summarization pipeline using synthetic labels from a zero-shot Qwen2.5-7B teacher.
- Fine-tuned a Qwen2.5-1.5B model with QLoRA under GPU constraints, achieving strong ROUGE and BERTScore.

Technical Skills

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

Leadership & Volunteering

President, Student Union, CentraleSupélec – Managed a team of 20 members.

2022 – 2023

Humanitarian Project in Cambodia – NGO "Les Enfants de Klang Leu"

2019 – 2022

Languages

French: Native

English: C1+ (Cambridge)

Serbian: B1+

Spanish: B1