

# Marius Dragic

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🌐 [Portfolio](#) [🔗](#)



## Education

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

## Professional Experience

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

## Academic Projects

<b>Latent Distance for Time Series</b>	<i>2024 – 2025</i>
<ul style="list-style-type: none"><li>◦ Learning a structured latent space via a convolutional autoencoder, whose geometry is coherent with the notion of distance between temporal series.</li><li>◦ Application to anomaly detection on synthetic signals and ECG data — <a href="#">paper in progress</a>.</li></ul>	
<b>Multi-Asset Trading via Deep Reinforcement Learning</b>	<i>2024 – 2025</i>
<ul style="list-style-type: none"><li>◦ Designed intelligent trading strategies in commodity markets using deep reinforcement learning agents, accounting for portfolio dynamics.</li><li>◦ Rigorous backtesting using financial metrics: annualized returns, volatility, Sharpe ratio.</li></ul>	
<b>Supervised Fine-Tuning of SLM Qwen2.5-1.5B for Document Summarization</b>	<i>2024 – 2025</i>
<ul style="list-style-type: none"><li>◦ Built an end-to-end summarization pipeline using synthetic labels from a zero-shot Qwen2.5-7B teacher.</li><li>◦ Fine-tuned a Qwen2.5-1.5B model with QLoRA under GPU constraints, achieving strong ROUGE and BERTScore.</li></ul>	

## 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

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

## Languages

**French:** Native

**English:** C1+ (Cambridge)

**Serbian:** B1+

**Spanish:** B1