

# Tanguy DUCROCQ

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Data & AI Engineer (Final Year) — EPITA

## Professional Summary

AI engineer focusing on quantitative modelling, financial machine learning, and large-scale data analysis. Hands-on experience building predictive models, risk-oriented simulations, and automated intelligence systems. Currently expanding expertise in asset modelling, time-series forecasting, and ML-driven decision tools for investment and risk teams.

## Work Experience

Business Developer	JECT Lyon	Since Sep 2025
<ul style="list-style-type: none"><li>Identify corporate needs, draft comprehensive commercial proposals, and manage end-to-end IT project follow-up between clients and technical stakeholders.</li></ul>		
AI & NLP Intern	DiliTrust, La Défense	Sep 2024 – Jan 2025
<ul style="list-style-type: none"><li>Designed an LLM-based contract classifier using multi-step prompting, significantly increasing generalization to unseen document types and improving data processing efficiency.</li><li>Developed a Python intelligent agent for automated documentation generation, integrating the ChatGPT API and Slack for streamlined data scraping and internal access.</li></ul>		
Co-creator	Sterenova, Paris	Since Apr 2023
<ul style="list-style-type: none"><li>Founded and manage an event planning and equipment rental business, overseeing all aspects of business development, operations, and client management.</li></ul>		

## Selected Technical Projects

Asset Modeling and Black-Scholes Simulation	(Personal Finance Project, 2025)
<ul style="list-style-type: none"><li>Application of the Black-Scholes Model to Real Market Data</li><li>Built Monte Carlo simulations for price trajectories and evaluated hedging strategies.</li></ul>	
Stock Market Forecasting with Differential Graph Transformer	(Research Project In Progress)
<ul style="list-style-type: none"><li>Developing a graph-based Transformer for multivariate financial time-series forecasting.</li><li>Modelling dynamic correlations between assets using evolving graph structures.</li></ul>	
ASES Stanford x HEC Hackathon — Dealflow Intelligence for Investors	
<ul style="list-style-type: none"><li>Designed an automated radar of attractive M&amp;A targets with real-time pre-valuation.</li><li>Generated written explanations of target relevance using ML-driven scoring and data extraction.</li></ul>	
Computer Vision for Sports Analysis	(Academic Project, 8 months)
<ul style="list-style-type: none"><li>Developed a computer vision pipeline detecting players and key actions from match footage.</li><li>Generated automated match statistics tailored for amateur clubs.</li></ul>	

## Education

MSc, Artificial Intelligence (Engineering Program)	EPITA, Paris	2023 – 2026
<ul style="list-style-type: none"><li>Major: Data Science, Artificial Intelligence, and Graphs (SCIA-G).</li><li>Coursework: Probability, Stochastic Processes, Optimization, ML, Graph Algorithms</li></ul>		
Preparatory Cycle	Sainte Marie, Antony	2021 – 2023

## Skills & Interests

**Technical:** Python (NumPy, Pandas, Scikit-learn, PyTorch), SQL | AI/ML (Machine Learning, Deep Learning, NLP, Computer Vision) | MLOps (Docker, Kubernetes, Git, CI/CD)  
**Languages:** French (Native) | English (Professional, TOEIC: 865/990)  
**Interests:** Competitive Tennis, Guitar & Piano