

# Lucie Correia - M.Eng. in AI & Computer Science

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## Education

<b>Télécom Nancy, Grande École d'Ingénieurs, France</b>	<b>2023 - 2026</b>
<i>Engineering Degree (MSc-equivalent) in AI, ML &amp; Software Development - 3,8/4 GPA overall</i> : OR/Graphs, ML, Probabilities, Signal Theory, Distributed Systems, Algorithms, Linux, Low-Level (C/C++), Cybersecurity, Cloud/Databases, Finance.	
<b>Polytechnic University of Catalonia, Spain</b>	<b>2025 - 5 months</b>
<i>Erasmus Semester - 4/4 GPA</i> : Convex Optimization, Data Science, Data Privacy, Pentest, Networks, Business & Finance.	
<b>Buffon High School Paris, France</b>	<b>2021 - 2023</b>
<i>MPSI/MP*- Preparatory Classes</i> : Intense two-year course in Mathematics and Physics for entrance to French Grandes Ecole.	

## Experience

<b>Data/AI Engineer Apprentice, Samsung Electronics France, Paris</b>	<b>Sept. 2025 - Aug. 2026</b>
<ul style="list-style-type: none"><li>Developing an <i>AI-powered penetration testing agent</i> from concept to deployment on <i>GCP</i>.</li></ul>	
<b>Data Scientist Intern, Recommerce Group, Paris</b>	<b>Summer 2025</b>
<ul style="list-style-type: none"><li>Implemented and backtested <i>ML models (Gradient Boosting)</i> and <i>time series models (Prophet, ARIMA)</i> to forecast prices of refurbished electronic devices, reducing short-term errors by over 30% against baseline models.</li><li>Deployed a fully automated weekly forecasting system using <i>Prefect (Python)</i>, which orchestrates the ETL pipelines and the complete ML lifecycle (training and inferences) within <i>Snowflake</i>. Developed a <i>Tableau</i> dashboard to present KPIs.</li></ul>	
<b>Data Analyst Intern, GS1 France, Paris</b>	<b>Summer 2024</b>
<ul style="list-style-type: none"><li>Contributed to the Digital Product Passport (DPP) project by designing <i>Excel</i> solutions and producing detailed reports.</li></ul>	

## Volunteering

<b>Founder of ITeaser (YouTube Channel) - Since 2024</b>
<ul style="list-style-type: none"><li>Interviewed software engineers to inspire young people. Managed video editing and marketing, surpassing 20k views.</li></ul>
<b>Secretary, Cybersecurity Club (Hackin'TN) - 2024 (1 year)</b>
<ul style="list-style-type: none"><li>Created challenges for cybersecurity competitions and participated in several CTFs, achieving top 6 rankings in team.</li></ul>
<b>Vice-Treasurer, Junior Enterprise (TNS) - 2024 (1 year)</b>
<ul style="list-style-type: none"><li>Managed a 10k budget, developed forecast budgets, supported commercial development, and contributed to strategy.</li></ul>

## IT Projects

<b>Homemade Transformer - 2025</b> : Built a basic <i>Transformer</i> model from scratch with <i>PyTorch</i> on <i>Google Colab</i> .
<b>IDS - 2025</b> : Developed an ML-based IDS using <i>TensorFlow</i> , tested on my <i>Mininet</i> network topology, and deployed on <i>GCP</i> .
<b>Portfolio - 2025</b> : Built a personal website, integrating an <i>AI chatbot</i> to provide information about my projects. <i>TypeScript</i>
<b>Home Server - 2024</b> : Configured and managed a personal NAS with Unraid OS, hosting services. <i>Computer Networks</i>
<b>Compiler - Group Project in 2024</b> : Developed a Mini-Python Compiler in Java with LL1 grammar. <i>Lexer &amp; Parser</i>

## Skills

<b>Programming Language</b> : Python (PyTorch, NumPy, Pandas, Polars, Flask, Scapy), C++, C, Java and R.
<b>Software</b> : <i>OS</i> (Linux, Windows, VirtualBox); <i>Engineering</i> (Git, Docker, GCP, Prefect, Hugging Face, Jupyter); <i>Data</i> (Snowflake, Tableau); <i>Productivity</i> (Latex, Typst, Microsoft Suite); <i>Security</i> (Wireshark, Metasploit, Burp Suite); <i>Finance</i> (IBKR).
<b>Soft Skills</b> : Analytical Thinking, Teamwork, Leadership, Entrepreneurship, Problem-Solving, Communication.

## Certifications & Events

<b>TOEIC - English Proficiency</b> : 890/990 (B2 Level) for listening and reading.
<b>Invited by Morgan Stanley Paris</b> to the Women Who Lead 2025 event : Techonology, Quantitative Finance & Trading.
<b>Quantitative Research Job Simulation by JPMorgan</b> : Market Forecasting of Gas in Python, Credit Risk Analysis.
<b>Introduction to Trading, Machine Learning &amp; GCP by NY Institute of Finance</b> : Quantitative Methods, Vertex AI, BQML.
<b>Advanced Portfolio Construction by EDHEC</b> : Factorial Investment, Risks and Asset optimization in Python.