

# FLORENT LIN

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## EDUCATION

<b>ENSAE Paris - IP Paris</b> <i>Diplôme d'Ingénieur (MSc equivalent) in Data Science &amp; Applied Math</i>	Palaiseau, France <i>Sep 2021 - Jun 2024</i>
<ul style="list-style-type: none"><li>• <b>Focus:</b> Advanced Probability, Bayesian Stats, Optimal Transport, Time Series.</li><li>• <b>AI Specialization:</b> Deep Learning, NLP, Online Learning, High-dimensional Stats.</li></ul>	
<b>Lycée Saint-Louis</b> <i>CPGE - PC (Intensive preparation in Math &amp; Physics)</i>	Paris, France <i>Sep 2019 - Jun 2021</i>

## PROFESSIONAL EXPERIENCE

<b>Aubay Data &amp; AI (Client: SNCF Réseau)</b> <i>Data Scientist Consultant - Predictive Maintenance</i>	Boulogne-Billancourt <i>Jan 2025 - Present</i>
<ul style="list-style-type: none"><li>• <b>ML Production:</b> Deployed predictive models for railway defects (XGBoost/Random Forest).</li><li>• <b>Engineering:</b> Built robust ETL pipelines for multi-source geospatial &amp; temporal data.</li><li>• <b>Optimization:</b> Tuned models for Recall/F1-Score to prioritize safety risks; SHAP for interpretability.</li><li>• <b>Decision Support:</b> Designed interactive dashboards and translated complex indicators into actionable KPIs for operational stakeholders.</li></ul>	
<b>Aubay Data &amp; AI</b> <i>R&amp;D Data Scientist Intern - LLM Machine Unlearning</i>	Boulogne-Billancourt <i>Aug 2024 - Dec 2024</i>
<ul style="list-style-type: none"><li>• <b>Research:</b> Conducted SOTA review on Machine Unlearning (Concept Erasure, DPO).</li><li>• <b>Implementation:</b> Fine-tuned <b>LLaMA</b> (LoRA) and trained RoBERTa classifiers for knowledge scrubbing.</li><li>• <b>Metrics:</b> Benchmarked efficacy vs. degradation using custom metrics (Truth Ratio, Conditional Probabilities).</li><li>• <b>Innovation:</b> Devised cross-lingual techniques to prevent knowledge leakage across languages.</li></ul>	
<b>Deloitte Conseil AIM (via ENSAE)</b> <i>Operations Research Data Scientist</i>	Paris <i>Nov 2022 - May 2023</i>
<ul style="list-style-type: none"><li>• <b>Modeling:</b> Formalized nurse scheduling constraints into Mixed-Integer Programming (MIP).</li><li>• <b>Solvers:</b> Developed constraint programming algorithms for multi-objective routing.</li></ul>	

## SELECTED PROJECTS

<b>Multi-modal Document Analysis (RAG)</b> <i>Client: MEWE Architects</i>	🔗 <a href="#">link</a> <i>Apr 2025 - Present</i>
<ul style="list-style-type: none"><li>• Built production RAG workflow (<b>Mistral OCR + Gemini</b>) for thousands of complex regulatory PDFs.</li><li>• Engineered context-aware injection strategies to reconstruct layouts, boosting retrieval accuracy.</li><li>• Implemented Pydantic for deterministic structured outputs from vision inputs.</li></ul>	
<b>Lead-to-Franchise Matching Engine</b> <i>Client: Franserve Consultants</i>	🔗 <a href="#">link</a> <i>Jul 2025 - Present</i>
<ul style="list-style-type: none"><li>• Architected semantic search system using embeddings to match leads to inventory.</li><li>• Built scraper-to-DB pipeline (Supabase) integrating CRM logs (GoHighLevel) for real-time enrichment.</li></ul>	

## Academic Research Projects

ENSAE

2023 - 2024

- **Multi-Armed Bandits:** Benchmarked UCB/Thompson Sampling in online learning settings.
- **Bayesian Stats:** Applied Gibbs Sampling and Bayesian Lasso for high-dimensional variable selection.

## TECHNICAL STACK

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<b>Deep Learning</b>	Python, <b>PyTorch, JAX</b> , HuggingFace, Scikit-learn
<b>Engineering</b>	SQL (PostgreSQL), AWS, Docker, Git, Firebase, Supabase
<b>Dev Tools</b>	TypeScript, Golang, C, R, Cursor (AI-assisted dev)
<b>Languages</b>	French (Native), English (C1+), Chinese (B2)

## CONTINUOUS LEARNING

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### Backend Engineering (Python & TypeScript)

*Boot.dev*

 [link](#)

*Sep 2025 - Present*

- **Core CS:** Advanced Complexity Analysis (Big-O), Memory Management, OOP and Dynamic Programming.
- **Systems:** Scalable HTTP Servers, Pub/Sub Architectures, Docker Containerization.
- **RAG from Scratch:** End-to-end pipeline implementation without frameworks.
- **Search Algorithms:** Built TF-IDF, BM25, and Hybrid Search (Vector + Keyword) systems.