Hugo PUYBAREAU

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Seeking a 6 months Internship as an AI engineer
Available to start in March 2026

EDUCATION

ÉCOLE CENTRALE DE LYON   2022 - 2026

Master of Science - Computer Science & Engineering   *Lyon, France*
- Core Courses : Probability and Statistics, Numerical Analysis, Physics, Computer Science
- Major Courses : Machine Learning, Data Engineering, Data Science, Algorithms and Reasoning, Market Finance
- Collegiate activities : Secretary General of the Centrale Lyon Ski club (Responsible for equipment and treasury, Managing logistics, Communication and Fundraising efforts)

UNIVERSITY OF LYON   2025 - 2026

Master of Science - Artificial intelligence   *Lyon, France*
- Relevant courses : Intelligent Agents, Theory & Application of Large Language Models, Graph Theory, Complexity

LYCÉE GUSTAVE EIFFEL   2017 - 2022

Preparatory school: PTSI-PT, High school European section in Mathematics - English*   *Bordeaux, France*
- Intensive Mathematics, Physics, Computer Science and Industrial Science for highly competitive entrance exams
- Mathematics courses taught in English, obtained a high school degree with European distinction.

EXPERIENCE

FOUNDER & CEO – SILVERAGENTS   August 2025 – Present
- Leading silveragents.ai, an AI-driven portfolio optimization startup. Responsible for product design, technical development, fundraising strategy, and overall business execution.
- Implemented a complex multi-agent LangGraph workflow with Langfuse monitoring, leveraging WebSearch and FileCreation tools. Built CI/CD automation, cloud deployment pipelines, and integrated PostgreSQL, Qdrant, and Redis to support scalable AI-driven portfolio analysis.

AI ENGINER INTERN – BEARINGPOINT   March 2025 – August 2025
- Architected, deployed and pitched a LLM-powered SaaS to assist editors in analyzing book manuscripts.
- Developed a chatbot leveraging a sophisticated RAG pipeline—incorporating prompt refinement, intent detection, vector database management, reranking, and end-to-end response generation.
- Led full-stack development with a FastAPI backend and a React + Vue.js + Tailwind CSS frontend.

DATA SCIENTIST INTERN – BNP PARIBAS   September 2024 – February 2025
- Leveraged open data by building Machine Learning models to predict, score, and classify customers (Random Forest, XGBoost, KNN).
- Facilitated decision-making by translating technical results into clear, non-technical dashboards for superiors without coding backgrounds.

PROJECTS

ENS DATA CHALLENGE   July 2024 - September 2024

QRT (4th/+800) *(classification)* / **ELMY (42nd/+220)** *(time series)*
- Developed advanced skills in predictive model optimization to predict the outcome of sporting events.
- Predicted electricity price differences between the SPOT market and the intra-day market using Feature Engineering and Machine Learning algorithms.

PERSONAL PROJECT – EMBEDDING ANALYSIS SEARCH   January 2025 - February 2025
- Engineered a FastAPI-powered semantic search engine using SBERT embeddings, with dynamic indexing endpoints, CORS support, and real-time retrieval of news articles from natural-language queries.
- Built a React.js frontend with smooth UI/UX animations and performed comparative analyses of TF-IDF, Sentence-BERT, and word2vec (CBOW & Skip-gram) embedding methods to evaluate search relevance.

PERSONAL PROJECT - WEB SCRAPING / NLP FINE TUNING   September 2024 - October 2024
- Developed an automated system for scraping tech news titles and generating full-length articles.
- Improved generation quality through Fine-Tuning of NLP models such as BART, T5, or GPT-2 on Google Collab.