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École Polytechnique launches new MSc&T program: "Large Language Models, Graphs and Applications" starting september 2026

In response to the rapid rise of artificial intelligence, École Polytechnique is proud to announce the launch of its new MSc&T program: "Large Language Models, Graphs and Applications" (LLGA). This program of excellence aims to bridge the growing gap between research advancements and the practical needs of businesses struggling to deploy these technologies at scale.

Transforming innovation into economic value

While models like GPT-4 and Gemini push the boundaries of research, many organizations remain stuck at the pilot project stage due to a lack of experts capable of industrializing these tools. Meanwhile, organizations face increasing volumes of data that only make sense in the context of their networks: large-scale social networks, electrical grids, or networks of proteins and microscopic molecules. Addressing these combined challenges enables the development of multimodal generative AI, opening new perspectives in healthcare, finance, recommendation systems, and beyond.

The LLGA MSc&T program is specifically designed to train AI engineers capable of transforming innovation into real economic value.

The program stands out with its dual approach: rigorous theoretical foundations combined with practical industrial expertise. Students will learn to:

- Master LLM Ops: Deploying and monitoring models securely and efficiently,
- Develop RAG (Retrieval-Augmented Generation) systems: Connecting AI to proprietary corporate data in a reliable and factual way,
- Design autonomous agents: Moving from simple chatbots to systems capable of planning and executing complex tasks,
- Explore Graph AI: A rare skill for generating structured data in fields like pharmaceuticals or networks

Who is this program for?

This MSc&T is intended for high-achieving students with a strong quantitative background who wish to acquire cutting-edge skills in solving complex problems and managing AI projects. The program combines research-based teaching, delivered by world-class professors, with experiential learning through interventions by industry experts.

Career prospects at the heart of tomorrow's industry

Graduates will be prepared to take on strategic roles in various sectors such as Big Tech, finance, healthcare, luxury, or public institutions. Targeted roles include:

- LLM Engineer / Agentic AI Expert,
- AI Solutions Architect,
- Chief AI Officer or AI Product Manager,
- AI Researcher or Graph AI Expert

A curriculum structured in two key stages

The two-year program combines fundamental theory and advanced specialization:

- Year 1 (M1) – Fundamentals and Immersion: Refresher courses in statistics and computer science, Machine and Deep Learning classes, followed by a first internship in a company or research laboratory.
- Year 2 (M2) – Specialization and Expertise: Focus on LLM engineering, model alignment (safety and ethics), and frugal AI. Students complete a final project addressing a real-world problem in collaboration with industry and conclude with a research internship.

In addition to technical skills, the program trains responsible professionals capable of navigating the ethical and regulatory challenges of AI.

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