

TRISTAN LECOURTOIS

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EDUCATION

Master of Computer Science, Mines de Saint-Etienne, France

Sept 2023

Ranked among the top 10 French prestigious engineering schools for academic excellence.

- Computer Science (Machine Learning, Python, C, C++, algorithmics, SQL)
- Mathematics, physics and chemistry
- Management, leadership and entrepreneurship

French "Classes Préparatoires", Lycée Pierre Corneille, Rouen

Sept 2021

- Rigorous multidisciplinary cursus, academic excellence, solving complex problems, preparation for top french prestigious engineering schools.

EXPERIENCE

Visiting student Researcher

April 2025 - August 2025

NASA Jet Propulsion Laboratory

Los Angeles, CA

- Enhance the cognitive architecture of LLMs through [ROS Agent](#) for more effective human-robot interaction.
- Develop new actions by integrating ROSA with robots like Spot and the JPL Rover
- Optimize workflows through prompt engineering and automation, boosting ROSA's adaptability.

Freelance Mission in Generative AI

October 2024

Repio, a startup incubated at Station F

Paris, France

- 18% Development of an automated Boolean query system for LinkedIn Sales Navigator using LangGraph, optimizing the talent search process for a startup specialized in AI-assisted recruitment.

LLM Research Intern

Jan 2024

Atos

Aix-en-Provence, France

- Training a text2SQL model with Langchain and Ollama for query generation to achieve a 90% execution accuracy
- Explored open-source Foundation models and employed HuggingFace's transformers for NLP tasks
- Developement of Retrieval-Augmented Generation (RAG) enabling conversational interactions with documents.

SELECTED PROJECTS

Build LLM from scratch Character-based LLM centered around characters, trained on a dataset including the works of Shakespeare using the Transformer framework. ([GitHub Link](#))

ML-based Self-Diagnostic Tool for Endometriosis Advanced endometriosis diagnosis through a streamlined model, achieving an F1-score of 0.92 and accelerated diagnosis via a concise set of 24 symptoms, utilizing an 800-example dataset. ([GitHub Link](#))

SKILLS

Python, PyTorch, TensorFlow, scikit-learn, LLama2, Mistral, LoRA, Arima, C/C++, SQL, Chroma

ASSOCIATIVE INVOLVEMENT

Vice President of Illu'Mines (Scientific outreach association)

Participant in the Les Entrep entrepreneurial program – Development of an AI-based automation startup