

# TRISTAN LECOURTOIS

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As a passionate MSc student in computer science, I'm eager to kick off my career journey in the field of Machine Learning.

## EDUCATION

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**Master of Computer Science**, Mines de Saint-Etienne, France Sept 2023  
Ranked among the top 10 graduate schools of engineering in France for academic excellence.

- Computer Science (Machine Learning, Python, C, C++, algorithmics, SQL)
- Mathematics, physics and chemistry
- Management, leadership and entrepreneurship
- Electronics, robotics and nano systems (assembler, VHDL, etc.)

**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

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**NLP Research Intern** Jan 2024  
Atos *Aix-en-Provence, France*

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

## PROJECTS

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**NL2SQL with LLMs** NLP project comparing different LLMs (Large Language Model), including LLaMA2 and SQLCODER:34B, on the Chinook Dataset using LangChain. Designing and training a text-to-SQL model for query generation. [\(Try it here\)](#)

**Character-based-LLM** Build a language model centered around characters, trained on a dataset comprising the works of Shakespeare. The architecture of the model is constructed using the Transformer framework and is implemented using PyTorch. [\(Try it here\)](#)

**Combinatorial optimization applied to the travelling salesman problem** Study and comparison of approximate solution methods, with proposal of a metaheuristic based on swarm intelligence concepts to find good approximate solutions in a reasonable time.

## SKILLS

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Python, PyTorch, TensorFlow, C, C++, SQL, MatLab, HTML, CSS, Git, Docker

## CERTIFICATIONS

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- CS50's Introduction to Artificial Intelligence with Python by Harvard University
- Generative AI With LLM by Andrew Ng from DeepLearning.AI
- Kaggle Certificate on Deep Learning