

TRISTAN LECOURTOIS

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

EDUCATION

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

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) enabling conversational interactions with documents.

PROJECTS

NL2SQL with LLMs Designing and training a text-to-SQL model for query generation. Comparing different LLMs (Large Language Model), including LLaMA2 and SQLCODER:34B using LangChain. ([Try it here](#))

Character-based-LLM Build a language model centered around characters, trained on a dataset comprising the works of Shakespeare and constructed using the Transformer framework. ([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

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

CERTIFICATIONS

- 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

ASSOCIATIVE INVOLVEMENT

Secretary General / VP of Illumines (science association)

Business Manager and Head of AI of Junior Mines Provence (junior enterprise)