

Teddy ALEXANDRE

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GenAI Data Scientist

SUMMARY

Entry-level AI specialist with hands-on expertise in NLP and Generative AI, I am driven by a passion for solving complex challenges and pushing the boundaries of innovation through cutting-edge projects. Skilled in building and maintaining CI/CD pipelines to streamline model deployment and accelerate development cycles, I have acquired experience in developing projects on cloud-based environments. I currently work as a GenAI Data Scientist at Publicis Re:Sources. Feel free to reach out!

WORK EXPERIENCE

Publicis Re:Sources

Paris, France

GenAI Data Scientist

February 2025 - Currently, Full-time

- Contributed to the development of an advanced chatbot RAG for many use cases
- Integrated Oracle 23ai as a vector store for managing document ingestion efficiently
- Maintaining CI/CD pipeline to ensure seamless and robust integration of the project

CEA LIST

Paris, France

NLP Research Intern

April 2024 – September 2024, Internship

- Conducted a literature review on parameter-efficient fine-tuning methods (LoRA, Adapters, Pre-training)
- Fine-tuned a language model using pre-training based methods, to perform domain adaptation at cheap cost
- Iterated the previous approach for a target sentiment classification task
- Supervised by Evan Dufraisie and Julien Tourille

Synchrotron SOLEIL

Paris, France

Research Intern

June 2023 – August 2023, Internship

- Implemented and deployed a deep learning algorithm analyzing diffraction patterns of various crystalline solids to predict space groups
- Managed a data ingestion pipeline (retrieval, preprocessing, model inference and evaluation)
- Optimized neural network hyperparameters to enhance model performance
- Supervised by Anass Bellachehab and Emmanuel Farhi

Swiv

Paris, France

Operations Research Intern

May 2022 – July 2022, Internship

- Conducted a literature review on vehicle routing algorithms
- Applied Clarke & Wright's algorithm (1964) to a set of vertices representing collection depots in Normandy
- Evaluated the algorithm's performance and attempted enhancements

EDUCATION

ENS Paris-Saclay

Paris, France

Master of Science (MSc) Mathematics, Vision and Learning (MVA)

September 2023 – September 2024

- **Relevant coursework:** Image Processing and Computer Vision, Natural Language Processing, Machine Learning, Deep Learning, Time Series, Advanced Statistics

ENSIIE

Paris, France

Master of Engineering (MEng) in Applied Mathematics

September 2021 – September 2024

- **Relevant coursework:** Probability, Statistics, Optimization, Regularized Regression Methods, Data Analysis, Relational Databases

Lycée Saint-Louis

Paris, France

Preparatory classes, Mathematics and Physics Major (MPSI - MP)

September 2019 – July 2021

- Intensive preparation for entry into top French engineering schools
- **Relevant coursework:** Mathematics, Physics, Chemistry, Computer Science

PROJECTS

Time series anomaly detection	Autumn 2023
<ul style="list-style-type: none">• Reimplemented MERLIN, an algorithm of time series anomaly detection based on discords	
Travelling salesman problem using geometric deep learning	Autumn 2023
<ul style="list-style-type: none">• Analysis of 'An efficient graph convolutional network technique for the travelling salesman problem': partial reimplementation and tests	
Molecule retrieval using natural language queries	Winter 2024
<ul style="list-style-type: none">• Cross-modal retrieval of diverse molecules encoded as graphs using their text descriptions	

SKILLS & INTERESTS

Programming: Python, R, C++, HTML/CSS, SQL

Data analysis and visualization: Pandas, Spark, NumPy, Scipy, Matplotlib, Seaborn, Plotly, Tensorboard, Wandb

Machine learning: Scikit-learn, PyTorch, TensorFlow, XGBoost, PyTorch Lightning, Transformers, MLFlow

Natural language processing / Large language models: BERT, GPT, Hugging Face, Gensim, NLTK

Computer vision / Image processing: PIL, OpenCV, pytesseract

Cloud - CI/CD: Azure (Portal, Pipelines), GCP

IaC: Bicep

Software: Shell, Git, Docker, Slurm, Jupyter

Theoretical: Probability, Statistics, Optimization, Graph theory, Machine learning, Deep learning, Reinforcement learning

Soft skills: Communication, Analytical, Problem-solving, Creativity, Critical thinking

Languages: French (mother tongue), English (advanced, Linguaskill 180+), Spanish (basics)

Interests: Sports (weightlifting, running, cycling), Music, Travels

ORGANIZATIONS

DataSciIENCE association from ENSIIE <i>Student Member</i>	<i>September 2022 – June 2023</i>
SoutIIE association from ENSIIE <i>Student Member</i>	<i>September 2022 – June 2023</i>
Dièse association from ENSIIE <i>HR manager</i>	<i>January 2022 – December 2023</i>