

Data Scientist/Engineer

Computer engineer passionate about AI and data.

Specialized in data analysis and processing as well as in the implementation and industrialization of AI systems.

Education

- From October 2021 to September 2023 • **Master's in Computer Science, Specialization in Machine Learning for Data Science (MLSD)**
Université Paris Cité Paris
 - Curriculum: Big Data, NLP, Machine Learning, Deep Learning, Times Series, Recommender Systems.
- From September 2017 to September 2022 • **Engineer's degree in Computer Science**
École nationale Supérieure d'Informatique ESI ex INI Algiers
 - Curriculum: High-Performance Computing, Advanced Database Systems, Data Structures, Operations Research & Graph Theory.
 - Active member of student associations like [School of AI Algiers](#) and [GDG Algiers](#), involved in workshop facilitation.

Work experience

- Since January 2024 • **Data Scientist**
Freelance Paris
 - Text analysis and processing (supervised/unsupervised).
 - Implementation of LLM-based solutions (RAG) for custom creative text generation.
 - Web Scraping and building databases.
 - Tools:** Python, FastAPI, Haystack, MongoDB, Playwright.
- From November 2022 to September 2023 • **Data Scientist: application of LLMs in the medical field (NLP, Statistics, Ethics)**
SogetiLabs part of Capgemini Issy-les-Moulineaux, France
 - Improved reliability of extracted information by a range of 5 to 20%.
 - Designed and implemented robust, reusable, and industrializable NLP and LLM pipelines for processing medical reports, showcasing technical skills and creativity.
 - Critically analyzed methods, obtained results, and future developments, demonstrating rigor and critical thinking.
 - Tools:** Python, Pandas, HuggingFace, Numpy, Matplotlib, Streamlit, Docker.
- From November 2022 to January 2023 • **Experiences and missions with clients of SogetiLabs.**
Spectre Biotech & Coface Paris, France
 - Accompanying clients in the realization of POCs on innovative AI and Data challenges.
 - Implementation of personalized machine learning models and NLP and LLM pipelines.
 - In-depth data analysis and creation of dashboards for monitoring and visualization.
 - Tools:** Python, Pandas, ScikitLearn, HuggingFace, Plotly, Streamlit.

Personal and Academic Projects

Engineer's Thesis Project: Automatic Extraction of License Plate Numbers using Deep Learning.

- Fine-tuned the models and Deployed them on GCP, created a Rest API ensuring accessibility.
- Python, Pytorch, Tensorflow, VM, Matplotlib, Flask, CNN, RNN, Attention.

Kaggle Competition: Deep learning architecture for predicting sleep periods.

Python, Tensorflow, Time Series, LSTM, CNN, BiLSTM, Matplotlib, Pandas, Parquet

TweetAnalysis: A web platform for scraping and advanced analysis of tweets.

- Trend analysis on a topic, sentiment analysis, visualizations, etc.
- Python, Pandas, Streamlit, ScikitLearn, NLP, Machine Learning.

Skills

GCP (AutoML, Looker Studio, BigQuery, etc.), Azure Machine Learning, MLOps

- Azure Data Scientist Associate** certification (*in progress*).
- GCP Professional Data Engineer** certification (*in progress*).

Docker, SQL (PostgreSQL), NoSQL (MongoDB), MLFlow, Bash, Java, Spark, Apache Beam, Databricks.

- [Databricks Accredited Lakehouse Platform Fundamentals](#)
- [Databricks Accredited Generative AI Fundamentals](#)

Python, R, Pandas, Numpy, Matplotlib, Tensorflow, Streamlit, Scikit-Learn, HuggingFace, LLM & RAG

Substantial enterprise experience and through personal projects.

Interests

Chess, Cinema

Languages

French (C2), English (C1)

Social networks

in @lounes-mechouek

🐙 @lounesmechouek