

## Data Scientist/Engineer

Skillful computer engineer passionate about AI and data, seeking a new challenge in the design, implementation, industrialization, or monitoring 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.
  - Minimum of one project per module, plus extended projects.
- 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

- From November 2022 to September 2023 • **Internal project: 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.

- Implemented the architecture and Deployed it 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.

#### **MedicoDZ:** Medical appointment management platform.

- Implemented the database, REST API, and contributed to the mobile application.
- PostgreSQL, UML, Express.js, Kotlin, Sequelize, CI/CD.

### Skills

#### **GCP (AutoML, VertexAI, BigQuery, etc.), Azure Machine Learning, MLOps**

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

#### **Docker, SQL (MySQL, PostgreSQL), MLFlow, Java, PySpark, 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**

adherent of the London System.

#### **Cinema and TV Shows**

always ready for a popcorn session!

### Languages

#### **French**

C2 Level

#### **English**

C1 Level

### Social networks

**in** @lounes-mechouek

**🐙** @lounesmechouek