

Lounes Mechouek

Data Scientist - Machine Learning Engineer

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Île de France, France

PROFESSIONAL EXPERIENCES

SogetiLabs part of Capgemini – Data Scientist

NOV 2022 - SEPT 2023, Issy-les-Moulineaux, France

- Management of a research and development (R&D) project.
- Implementation of day-to-day operations in **Text Mining** and **NLP**: Collection, Preprocessing, Visualization, and Statistical Analysis.
- Execution of unsupervised methods for data exploration: **clustering**, **topic modeling**.
- Implementation of semi-supervised techniques based on transformers and **LLMs** for information extraction.
- Active contribution to client projects (refer below).

Spectre Biotech – Data Scientist

NOV 2022 - DEC 2022, Issy-les-Moulineaux, France

- Development of an integrated web solution for comprehensive analysis of electroencephalographic (EEG) data using Streamlit.
- Creation of 2D and 3D visualization modules using Plotly.
- Establishment of a predictive modeling component based on supervised approaches for identifying specific pathologies..

Fédération Française de Rugby – Data Scientist

JAN 2023 - MAR 2023, Issy-les-Moulineaux, France

- Suggestion of an advanced solution for automated analysis of rugby matches.
- Incorporation of state-of-the-art **object detection models**.
- **Detection of events** through **unsupervised** methods.

EDUCATION

Université Paris Cité – Master's degree

SEPT 2021 - JUNE 2023, Paris, France

Title: **Machine Learning for Data Science**, in apprenticeship.

Key Subjects: **NLP, Co-Clustering, Big Data, Mixture Models, Deep Learning**

Ecole Nationale Supérieure d'Informatique

SEPT 2017 - SEPT 2022, Algiers, Algeria

Engineer's Degree in **Computer Science, Software Engineering** Option.

Key Subjects: **Linear Algebra, Analysis, Logic, Probability and Statistics, Databases, Graphs**.

RECENT PROJECTS

GetThePlate – Final Year Project for Engineer's Degree

OCT 2021 - SEPT 2023

- Development of a system to detect and extract license plate numbers from vehicles using **state-of-the-art Computer Vision** models.
- Creation of a **REST API** using **Flask**.
- Implementation of **unit tests** using **pytest**.
- Deployment of the API on an **IaaS** environment (in a **Virtual Machine**) on **GCP** with a response time of less than 7s.

Classification of Medical Entities

JAN 2023 - FEB 2023

- Creation and Training of a **Seq2Seq LSTM** Model with **Tensorflow** for Predicting **ICD-10** Codes for a set of Pathologies.

Advanced Analysis of a Customized Corpus of Tweets

MARCH 2022 - MAY 2022

- Development of a **Web Interface** using **Streamlit** for Scraping Tweets with Advanced Filters.
- The interface allows to perform **sentiment analysis** on the dataset, visualizing **discussion topics**, and conducting **multivariate analysis** of the data.

Key Skills

- **Python**
- **R**
- **Data Mining**
- **Deep Learning and Machine Learning**
- **NLP and Computer Vision**

Other Skills

- **Big Data (Hadoop Ecosystem)**
- **Numpy, Tensorflow, Pandas**
- Low-code web (**RShiny, Streamlit**)
- **Bash** programming
- **SQL**, MySQL, PostgreSQL, Sequelize
- **C, Java**
- Containerization (**Docker**)
- JavaScript, ReactJS, NodeJS
- Cloud Computing : **GCP**, Heroku
- HTML, CSS, Bootstrap
- Tests (TDD, Unit, Mocks, Functional)
- JUnit, Cucumber, Selenium, **Pytest**
- Android (Kotlin)
- Software architectures (MVC, **Micro-services**)
- CI/CD : Jenkins, **Git**
- Clean Code (OOP, **Design Patterns**, Code inspection & quality)

Personal Qualities

- Effective Communication
- Team Collaboration
- Versatility and Autonomy
- Attention to Detail
- Pragmatic Approach

Languages

French (bilingual)

English (fluent)

Arabic (bilingual)

Links

Website : lounes.tech

Github : [/lounesmechouek](https://github.com/lounesmechouek)

Kaggle : [/neslousc](https://www.kaggle.com/neslousc)

LinkedIn : [/in/lounes-mechouek](https://www.linkedin.com/in/lounes-mechouek)

Certifications

Neural Networks and Deep Learning

Coursera, 2020

ID : SKZN6PNLRT9N

Machine Learning Engineering for Production (MLOps Specialization)

Coursera, In progress