






joel.hamilcaro@gmail.com

 joelhamilcaro.com

 [Joel-Hamilcaro](https://github.com/Joel-Hamilcaro)

 [joel-hamilcaro](https://in.joel-hamilcaro)

Skills

Machine Learning

Deep Learning, NLP,
Reinforcement Learning,
Computer Vision

Databases

SQL, NoSQL, Cypher, Hadoop

Computer Languages

Python, R, Java, C++,
Dart, HTML, CSS,
JavaScript, PHP

Software Tools

Office, UML, LaTeX, Git,
GCP, Linux Shell (Bash)

Languages

- French (Native)
- English (Fluent)
- Spanish (Intermediate)

Sports Academy

French Karate Federation (FFKDA)

**Federal Instructor Diploma
(DIF)**
2024

**Black Belt 1st Dan,
Shotokan**
2014

Joël Hamilcaro

Data Scientist, AI & ML Engineer

Professional Experiences

Data Scientist - Medical & Public Health 2023 - 2025

Headquarters of "AP-HP", Paris (Europe's leading university hospital center)

- Processing and analysis of healthcare data (PMSI).
- Generative AI for medical coding support (ICD-10).
- Automation and deployment of dashboards (notably for post-Covid monitoring and the Paris 2024 Olympics).

Transformer, PyTorch, Tensorflow, Spacy, Spark, Pandas

Machine Learning & AI Engineer 2022 - 2023

Orange Silicon Valley Challenge, California (USA)

- 2nd prize in the Orange Silicon Valley NLP contest, focused on improving translation tools for 'Low-resource' languages.

Co-author (article): 2023.loresmt-1.9

GRAT.app

- PyTorch training pipeline, Front-end development, Production and hosting.

Deployment of a language model: grat.app

PyTorch, FastAPI, React, Google Cloud Platform (GCP)

Data Scientist Apr. - Sep 2022

Safran Aircraft Engines, Villaroche (France)

- Data Science applied to the operational maintenance (MCO) of aircraft engines

- Design of a Patented AI System – Patent FR3144113A1

- Recommendation letter: engagement-jeunes.com

Python, Optimization, Modeling and simulations

Education

Université Paris-Cité 2020 - 2022

Double Master's in Maths & Computer Science: Data Science

Highest honors in both degrees

Université Paris-Cité 2017 - 2020

Double Bachelor's in Mathematics & Computer Science

Faculty of Medicine Paris 7 2015 - 2017

Initial Medical Studies

French General High School 2014 - 2015

Scientific Baccalaureate Diploma, Mathematics Specialization

Highest honors