

# Tom Salembien

PortFolio: [Data Science PortFolio](#)  
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## EDUCATION

### Institut Polytechnique de Paris (Ecole Polytechnique)

Palaiseau

Msc (M2) of Data Science

2022–2023

- Main themes : Convex Analysis and Optimization Theory, Reinforcement learning , Deep Learning, Theory and Practical Machine Learning, Computer Vision, Data Stream, Advanced AI for Text and Graph Data, Challenges and Projects

### Telecom SudParis

Evry/Palaiseau

Graduate engineering schools of Computer Science/Mathematics (MSc)

2020–2023

### Preparatory school at Lazaristes

Lyon

Two-year undergraduate intensive course in mathematics/physics/chemistry to prepare national exam

2018–2020

## EXPERIENCES

### Richemont International SA, Research and Innovation

Neuchâtel, Switzerland

Project Manager AI/Computer Vision

August 2023 - Now

- Investigation and deployments of anomaly detection algorithms, dimension reduction algorithm, robust features extractions and matching, complete versatile software to manage all technical features in production.
- Evaluation, POCs, pilots and deployments of solutions in several Maisons and Manufactures of the group
- Assessing the financial impact of technical decisions, optimising costs and managing budgets to maximise return on investment
- Coordination with external research teams and corporate partners to align objectives and ensure fluid communication.

### Richemont International SA, Research and Innovation

Neuchâtel, Switzerland

Data Scientist intern

April-August 2023

- Ideation and creation of an optical module for automatic anomaly detection on watches parts
- Data acquisition, computer vision (pre)-processing, deep learning models for anomaly detection
- Proactive identification and resolution of possible issues to minimize risk and ensure project success.

### Bracco Switzerland

Plan les Ouates, Switzerland

Data Scientist intern

June-August 2022

- Data cleaning and processing of CEUS (contrast enhanced ultrasound) images.
- Exploration, creation and of a deep neural networks for the classification of liver lesions on CEUS images.
- Optimization, analysis of results and training of alternative deep neural network architectures

### Inria, Lirmm

Montpellier

Software Developer intern

July-August 2021

- Coding in Python/Java an interpreter in Java to use Graal (Java toolkit to querying knowledge bases)

## PROJECTS

### Capstone Project with Kering

MSc Project

Replenish the regional warehouse and the stores from the regional warehouse, minimizing the average stock.

### Proteins classification

MSc ALTEGRAD Project

Kaggle Challenge on the classification of proteins using state-of-the-art ML and AI methods for text and graph data.

### Stock Market Prediction

MSc Data Stream Project

Developed a project to collect trading data using Yahoo Finance API and predict market stocks of major international companies with adaptive regression models (Python, River, Kafka, scikit-learn).

## LANGUAGES AND SKILLS

#### Programming:

Python, Streamlit, SQL,  
SAS, Linux, Java, Git,  
Data Science, GCP,  
Docker, ML tools

#### Hard Skills:

Pytorch, Tensorflow,  
Opencv, Cuda, Scikit,  
Data science, Time series,  
Computer Vision, NLP

#### Soft Skills:

Organization, Disruption,  
Communication,  
Sociability, Autonomy,  
Team working, Leadership

#### Certifications:

Edx : Deep Learning,  
Coursera : Computer  
Vision, NLP

#### Languages:

French (Native),  
English (C1, Fluent),  
Spanish (B2, Basic)