

**Born:**  
16/07/1996  
(Milan, Italy)



**Nationalities:**  
Italian, French

**Bio:** I have always been curious about the world, enthusiastic about puzzles and building impactful things. In my academic and professional life, I managed to turn this drive into a strong skillset for decision-making in critical contexts with real world implications.

## Skills

### Languages

Italian	Native
English	Excellent (C1)
French	Good (B2)
Spanish	Beginner (B1)

### Competence Areas

- Mathematical Analysis
- Statistics and Probability
- Data Analysis and Visualization
- ML & DL
- Explainable AI
- Optimization
- Literature Survey
- Research Planning

### Programming Tools

Python	Excellent
Sklearn/NumPy/Pandas	Excellent
PyTorch/TF/Keras	Proficient
Git, CI/CD	Proficient
C/C++	Proficient
JAGS/BUGS/Stan	Proficient
OSs (Mac/Win/Lin)	Proficient
Office suite	Proficient
R	Good
MatLab	Good

### Data Science Tools

MLOps/Governance	Proficient
ETL	Proficient
Databases (SQL/NoSQL)	Proficient
HPC Usage	Proficient
Docker/Singularity	Good
Kubernetes	Good
ML Engineer	Certified

### Reasoning Skills

abstract reasoning   long term planning  
communication   problem solving   mentoring  
public speaking   teamwork   time management  
process analysis

## Education (5+ Years Graduate)

Nov. 2022 - Feb. 2026:

**Ph.D. in Data Analytics and Decision Sciences (Politecnico di Milano, Milano)** [link] – I developed data-driven Predictive Maintenance tools (#1, #2) to model the health and behaviour of critical aeronautical sub-systems based on their time histories, supporting safe and robust human decision-making. To maximize model insightfulness and actionability, the focus has been on explainable techniques, e.g., via the original multi-model Bayesian framework employed

time management   mentoring   abstract reasoning   long term planning   problem solving   process analysis

Sep. 2018 - Apr. 2021:

**M.Sc. in Mathematical Engineering (Politecnico di Milano, Milano)** [link] – Master of Science (110 cum Laude / 110, GPA: 29.13/30), major in Statistical Learning (MST)

process analysis

## Work Experience (2+ Years)

Sep. 2024 - Feb. 2025:

**Trainee (Leonardo S.p.A., Genoa)** – Carried out the implementative side of the Ph.D. project (#1), building the ML pipelines to train, evaluate, and run Predictive Maintenance models on High Performance Clusters

teamwork   process analysis   communication   problem solving

Apr. 2021 - Oct. 2022:

**Software Developer Engineer (NTT Data S.p.A., Milan)** – Worked on B2B projects for data-driven transformation (e.g., valorization of the client's data silos via ML solutions), from gap analysis to solution design and client interactions (#3)

time management   communication   process analysis   mentoring

Sep. 2019 - Jan. 2020:

**Trainee (CESI S.p.A., Milan)** – Worked in industry to carry out the research and methodological development of my M.Sc. Thesis (#4)

problem solving

## Project Spotlight

### #1. Anomaly Detection for Predictive Maintenance [Ph.D. Thesis]

Designed a novel methodology for early warning machinery faults based on Anomaly Detection, achieving state-of-the-art performances on real studies

problem solving   process analysis   abstract reasoning

### #2. Multi-Model Explainability

Much of the focus in my Ph.D. has been on the development of explainable data-driven techniques to ensure safe and robust decision-making; I achieved this goal with an explainable multi-model Bayesian technique, used in #1 [link]

communication   process analysis

### #3. Documental Classification and Entity Recognition

Designed solutions to facilitate text document classification (97%+ accuracy) and content retrieval (90%+ accuracy)

communication   process analysis

### #4. Graph-Based Dynamic Security Assessment [M.Sc. Thesis]

A scenario-driven ML solution to rank the level of risk for configurations of a Power Network, (0% missed alarms and 75% pass-through rate on simulation-based tested cases)

process analysis   problem solving

## Volunteering

Aug. - Sep. 2018

**Medical and Education Program volunteer (Indian Institute for Mother and Child, Kolkata, India)**

teamwork