



# CRISTIAN C. SPAGNUOLO

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📁 [portfolio](#)

## EXPERIENCE

### ML Cube [↗](#)

09/2024 – Now

*AI Engineer*

*Milan, Italy*

- Work closely with data professionals to understand the **business requirements** and identify, collect and clean the relevant data.
- Design, evaluate, and deploy **machine learning** models including **computer vision (CV)** and **large language models (LLMs)** solutions.
- Monitor the performance, assess the quality and re-train deployed models.

## EDUCATION

### Politecnico di Milano

02/2020 – 07/2024

*Master Degree in Computer Science and Engineering - 110/110 cum laude*

*Milan, Italy*

### Università degli Studi del Sannio

09/2015 – 10/2019

*Bachelor Degree in Computer Science and Engineering - 110/110 cum laude*

*Benevento, Italy*

## PROJECTS

### Boston House Pricing [↗](#)

08/2024

- End-to-end Machine Learning project involving data exploration, pre-processing, model building, and evaluation to predict housing prices with a 95% C.I.

**Technologies:** Python, Pandas, Scikit-Learn, Matplotlib, Seaborn, Plotly.

### Teleport Markov Decision Process [↗](#)

11/2022 – 07/2024

- Developed a novel curriculum learning approach based on teleportation mechanisms with a research team of 4 people, resulting in 5 times faster learning.

**Technologies:** Python, NumPy, PyTorch, Open AI Gym, NN, TensorFlow, Tensorboard, MLFlow.

### Time Series Forecasting [↗](#)

01/2022

- Predict future samples of a multivariate time series using advanced deep learning techniques. In a team of 2 people, we achieved an MSE of 3.364, landing our model into the top 10 ranking.

**Technologies:** Python, NumPy, Keras, TensorFlow, Colab, Git.

For a complete list, please refer to my [portfolio](#) [↗](#).

## TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, Java, C, C++, JavaScript, JSON, XML, Assembly.
- **Artificial Intelligence:** Machine Learning: supervised, unsupervised and reinforcement learning. Deep Learning: **computer vision (CV)**, image classification, time series forecasting, natural language processing, **large language models (LLMs)** and **generative AI**.
- **Python Libraries:** Pandas, Polars NumPy, **TensorFlow**, PyTorch, **Keras**, NN, **HuggingFace**, Open AI Gym, Scikit-Learn, Matplotlib, XGBoost, Seaborn, SciPy, Plotly, NLTK.
- **Technologies:** MLFlow, Google Cloud Platform, VertexAI, Tensorboard, Git, GitHub, Docker, Kubernetes, BigQuery, FastAPI, Tableau, MongoDB, Firebase, Django, NodeJS, NodeRed, VueJS.
- **Software Engineering:** CI/CD Pipelines, Scrum, Testing Driven Development, MLOps, Design Patterns, Security Principles, Distributed Systems, Make, Ruff, Uv.

## CERTIFICATIONS

- **Google Advanced Data Analytics** [↗](#)
- **IBM Machine Learning Professional Certificate** [↗](#)