



# CRISTIAN C. SPAGNUOLO

Milan, Italy

☎ +39 3395869455

✉ cristian.c.spagnuolo@gmail.com

🌐 [linkedIn](#)

🔗 [cris96spa](#)

📁 [portfolio](#)

## EXPERIENCE

### ML cube [↗](#)

09/2024 – Now

*AI Engineer*

*Milan, Italy*

- Designed and developed a normative assistant **AI chatbot** for a **leading financial institution**, leveraging a **knowledge graph** and **RAG** techniques to streamline navigation of regulatory information, resulting in a **18%** enhanced decision-making accuracy.
- Developed an **LLM-powered agent** for financial users, enabling natural language queries on MSSQL databases with a demonstrated **system accuracy of 76%**.
- Coordinated efforts with product and engineering teams to design and implement a new feature for **segmented monitoring** on the ML cube Platform. This enabled precise tracking of sub-population distribution shifts, driving a **12% increase** in subscriber growth.
- Designed and implemented an **image generator** to simulate quantified distribution drift in image datasets, enabling robust testing and validation of ML cube's proprietary algorithms.

## EDUCATION

### Politecnico di Milano

02/2020 – 07/2024

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

*Milan, Italy*

### Università degli Studi del Sannio

09/2015 – 10/2019

*Bachelor's 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, 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, assembly.
- **AI/ml:** pandas, **pytorch**, polars, numpy, tensorflow, **langchain**, **langgraph**, **crew ai**, huggingface, open ai gym, **mlflow**, scikit-learn, matplotlib, **xgboost**, seaborn, plotly.
- **Technologies:** gpc, aws, azure, git, github, docker, mongodb, fastapi, firebase, django, node-red, make, uv.

## LANGUAGE SKILLS

- **English:** Fluent, Master's degree completed in English.
- **Italian:** Native.

## ACHIEVEMENTS

- **2nd Place, Hackapizza Hackathon – Team 4-omini** [↗](#)