

Cristian C. Spagnuolo

Milan, Italy

□ +39 3395869455 ▼ cristian.c.spagnuolo@gmail.com 📻 linkedIn 🞧 cris96spa 🔾 portfolio

EXPERIENCE

ML cube 🗹 AI Engineer

09/2024 - Now

Milan, Italy

- Implemented a document digitalization pipeline to process scanned PDFs, achieving 79% accuracy in OCR and entity extraction to construct a knowledge graph for structured information retrieval.
- 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.

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

Image Distribution Drift Simulator

10/2024 - 12/2024

• Designed and implemented an **image generator** to simulate **quantified distribution drift** in image datasets, enabling robust testing and validation of machine learning models.

Technologies: Python, Polars, Torch, Plotly.

Teleport Markov Decision Process 2

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.

For a complete list, please refer to my portfolio \square .

TECHNICAL SKILLS

- Programming languages: python, sql, java, c, assembly.
- AI/ML: pandas, pytorch, polars, numpy, tensorflow, langchain, langgraph, crew ai, huggingface, llamaindex, olama, deepseek, 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, chroma, neo4j.

LANGUAGE SKILLS

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

ACHIEVEMENTS

2nd Place – Hackapizza Hackathon

01/2025

• Built a hybrid retrieval system integrating semantic search and metadata filtering, placed 2nd out of 18 teams selected from **500**+ applicants.