COSTANZA CALZOLARI

AI & DATA SCIENTIST

CONTACT

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PROFILE

I'm a data scientist focused on designing and deploying AI solutions that generate measurable business impact. I work end-to-end across the ML lifecycle, from raw data exploration to building tools that support automated decisions. My experience spans wealth estimation, credit risk modeling, and R&D on LLM-based systems, often in close collaboration with engineering, product, and business teams. I enjoy translating complex problems into models and insights that drive strategic action. Outside work, you'll find me in the mountains either on my mountain bike or with a heavy backpack, chasing new views and extreme heights.

LANGUAGES

- Italian (Native)
- English (Fluent)
- French (Basic)

SKILLS

Machine Learning & AI
- **ML:** scikit-learn, statsmodels, XGBoost, LightGBM
- **Deep learning:** PyTorch, TensorFlow, Keras
- **NLP & LLMs:** LangChain, LangGraph, LangFuse, MCP, NLTK, Hugging Face, RAG, chatbot, DeepEval, Ragas
- **MLOps:** Docker, Kubernetes, Kubeflow, Argo Workflows, CI/CD
- **Model monitoring**: MLflow, Grafana

Data & Infrastructure
- **Data Analysis:** pandas, numpy, dask, scipy
- **Data viz:** matplotlib, seaborn, plotly, streamlit, Dash, R Shiny
- **DB & Infra:** SQL, AWS, Elasticsearch, Kafka

Programming & Tools:
- **Languages**: Python, R, Bash
- **Tools**: Git, VSCode, Jupyter Notebooks, Linux, Excel
- **Learning**: JavaScript, TypeScript, React, Next, Vercel, Node

WORK EXPERIENCE

SpazioDati (ION Group)

Data Scientist   2022 - PRESENT, TRENTO (ITALY)

- Designed and built machine learning models for personal wealth estimation and credit risk, contributing to tools used by financial clients for automated decision-making.
- Developed statistical frameworks to estimate sustainability and energy consumption at company level, enabling strategic insights for banks.
- Prototyped LLM-powered tools, including RAG pipelines and chat-based interfaces to support decision processes.
- Collaborated with product, backend, and design teams to turn data analyses into user-facing tools.
- Contributed to MLOps and CI/CD pipelines ensuring robust, reproducible model delivery in staging and production.

BIP x-Tech   2021, MILAN (ITALY)

Data Scientist Internship

- Developed ML models to enhance business processes and extract insights from large datasets.
- Presented results clearly to clients and supported strategic decision-making.

Araneum Technologies

Data Scientist Internship   2019, ZURICH (SWITZERLAND)

- Led NLP-based analysis of bank transaction data to improve customer insight.
- Researched and planned implementation of tailored text processing workflows.
- Gained hands-on experience in applied NLP and project delivery.

EDUCATION

Master of Science in Data Science   2017-2021

ETH Zurich
Final thesis: "Missing Data Imputation in Hospital Administrative Claims Data for Predicting Early Hospital Readmissions", Supervisors: Julia Vogt, Thomas Sutter.

Bachelor of Science in Statistics   2014-2017

Double Degree: University of Bologna & Glasgow University
Final thesis: "Statistical Inference in Big Viral Antigenicity Data", Supervisors: Dirk Husmeier, Vinny Davies