

Stefano Martire

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EDUCATION

PhD in Data Science and Computation

2020 - 2024

Italian Institute of Technology

- Designed and trained a neural network potential on 10M molecules reaching production accuracy;
- Supervised by Andrea Cavalli and Sergio Decherchi.

BSc and MSc in Mathematics

2015 - 2020

Università Cattolica del Sacro Cuore

PROFESSIONAL EXPERIENCE

AI Scientist

2024 -

Digitiamo

- Built a statistical machine-learning pipeline to let the Client increase the conversion rates of its marketing campaigns;
- Developed an AI framework to automatically analyze conversations from an e-commerce chatbot gaining valuable insights on customers' desires.

PUBLICATIONS

OBIWAN: An Element-Wise Scalable FF Neural Network Potential

2024

The quantum chemistry AI method resulting from my PhD studies.

J. Chem. Theory Comput.

Ipotesi di Sintesi dell'Intelligenza

2023

Essay containing my vision and perspectives on the problem of artificial general intelligence.

Edizioni Altravista

Salendo su un foglio di carta

2020

Divulgative mathematical book, co-authored with professor Alfredo Marzocchi.

Aracne editrice

IT SKILLS

Backend: Python, SQL, C, bash, FastAPI

Frontend: Javascript, HTML, CSS

MLOps: TensorFlow, PyTorch, JAX, pandas, NumPy, Matplotlib, scikit-learn

DevOps: Git, Docker, Singularity, conda

PERSONAL PROJECTS

Lombacovid

2020

lombacovid.it

- Established a periodic pulling from the national repository of Covid-19 clinical data in order to maintain a personal database;
- Visualised and served the aforesaid db to 5k distinct users (29k visits in total).

LearningCurves

2023

learningcurves.xyz

- Developed a privacy-preserving online tool to compare the performances of machine-learning models.