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

Co-founder and CTO
2024 -

Brescia AI

- Building vertical AI solutions to connect people with deep tech;
- Sbobba AI, our transcription and summarization app, is now live at https://sbobba.ai.

AI Engineer
2024 -

Digitiamo

- Built a Data Science 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;
- Created an ML algorithm that anonymizes an input text on the edge to later send it to a cloud LLM provider without leaking sesitive information.

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.