

Education

EPFLLausanne, Switzerland

MSc in Computational Science and Engineering

Sept. 2021 - Jan. 2024

• GPA: 5.82/6. Keywords: Computational Social Science, Machine Learning, Network Science and Data Science.

- Class delegate, representing 40+ students to the Section, the Executive Board and the General Student Association.
- Student **Teaching Assistant** for "Applied Data Analysis" (Fall 2022) and "Machine Learning for behavioral data" (Spring 2022).

University of Bologna Bologna, Italy

BSc in Physics

Sept. 2018 - July 2021

• Grade: 110/110 cum laude. Final GPA: 29.96/30, top 0.25% of all UniBo students.

• UniBo grant for students with outstanding academic records, awarded to < 0.5% of students from the whole university.

Experience

Bain & Company | NPSx Munich, Germany

ASSOCIATE INTERN, DATA SCIENCE

July 2022 - Sept. 2022

- Created predictive models for NPS and CLV, cornerstones of a product now sold to Fortune 500 companies.
- Productionised the data pipeline by integrating MLOps practices, testing and automation within GCP.

Projects

Topical classification of Wikipedia images

RESEARCH PROJECT IN THE DATA SCIENCE LAB

Feb. 2022 - Present

- Developing a hierarchical classifier for Wikipedia images, categorizing them only by their topic in a weak supervision framework.
- Designed a set of linguistically motivated heuristics to associate images with training labels within a custom taxonomy.
- Year-long collaboration with Wikimedia Research, soon to be wrapped up with a first-author publication (in preparation).

A data-driven Political Compass

Applied Data Analysis course project

Sept. 2021 - Dec. 2021

- Analyzed a datased of ~180 mln quotations with **Apache Spark** within Python.
- · Leveraged Topic Extraction and Sentiment Analysis to infer a new Political Compass and curated a data story on US politics.

Disambiguating Voynich Manuscript transliterations

MACHINE LEARNING COURSE PROJECT

Sept. 2021 - Dec. 2021

- Fine-tuned word embedding models (fastText, Word2vec) on the task of disambiguating uncertain transliterations, with scarce data.
- · Built a benchmark on Italian and Latin and obtained a model with overall accuracy of 86%, subsequently employed with an unknown script.

Extracurricular Activity _____

Lead The Future

MENTEE Sept. 2020 - Present

Selected to be part of LeadTheFuture, a leading mentorship organization for Italian students in STEM, with acceptance rate < 20%.

Orienta|Me Bologna, Italy

MENTOR

Apr. 2021 - July 2021

· Selected as Mentor in Orienta|Me, a project promoting university orientation by advising high school students in their academic choice.

Italian Association of Physics Students (AISF)

Bologna, Italy

PRESIDENT OF BOLOGNA LOCAL COMMITTEE

June 2019 - June 2020

- Elected President of Bologna Local Committee of AISF, an association gathering toghether more than 1400 Italian physics students.
- · Organised conferences, scientific aperitifs, LaTeX courses, visits to research centres and social events with 50+ participants.

Skills_

Languages Italian (native language), **English** (C1 IELTS), **French** (B2 EsaBac)

Programming Python (PyTorch, TensorFlow, Keras, pyspark), C++ (OpenMP, MPI, CUDA), MATLAB, R.

Others ROOT, LabView, LaTeX, Git, GnuPlot, Google Cloud Platform.

DECEMBER 12, 2022 FRANCESCO SALVI · CV