

Enrico Buratto

Data Scientist

Birthday: December 10, 1996

Location: Treviso, Italy. Willing to relocate on a global level

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About me

As a data scientist and engineer with expertise in Machine Learning, Deep Learning, and Data Science, I bring hands-on experience in various applications.

Proficient in programming and software engineering, I'm always eager to learn something new.

Interests

Production-ready Machine and Deep Learning systems development.

Creation of computer vision applications, with a specialization in diffusion models and generative AI.

Implementing MLOps techniques for efficient project management.

Statistical analysis, big data systems implementation.

Soft skills

Accountability

Time management

Teamwork

Adaptability

Problem solving

Curiosity

Languages

English: full professional proficiency - Cambridge C2

German: basic knowledge

Italian: mother tongue

Volunteering

Scout Lead - AGESCI

Served as a Scout Leader for six years, fostering responsibility, decision-making, and accountability through mentoring children.

Volunteering with homeless people

Volunteering in a nursing home

Technical Skills

Programming languages

- Python [+++]
- TypeScript [++]
- C++ [+]
- R [+]
- Haskell [+]

Python libraries

- NumPy, Pandas [+++]
- PyTorch [+++]
- Scikit-learn [++]
- OpenCV [++]
- Matplotlib [++]

ETL and Big Data

- Oracle SQL [+++]
- Informatica [+++]
- PL/SQL [++]
- Apache Spark [+]
- pySpark [+]

Additionally: Web and mobile technologies (HTML, CSS, Ionic, Angular), DevOps tools (Git, Docker), Operating systems (GNU/Linux, Windows).

Experiences

Data Scientist and Data Engineer

Mar 2023 - now

Reply Technology Financial Services

Data science and data engineer consultant for big banks and financial companies. Creation and management of big data infrastructures and data warehouses based on Oracle technologies. Implementation of ETL pipelines.

Software Engineering Intern

Sep 2020 - Oct 2020

Sync Lab s.r.l.

University internship for the "SyncTrace" project, an idea from Sync Lab for contagion prevention in the context of the Covid-19 pandemic.

Education

Computer Science, MSc

Jan 2021 - Feb 2023

Final grade: 110/110 cum laude

University of Padua, Italy

Artificial Intelligence and Big Data curriculum

Thesis on Human Trajectory Forecasting through diffusion models

Computer Science, MSc

Sept 2021 - May 2022

Weighted average: 4.8/5, 72 ECTS

University of Helsinki, Erasmus+ program

Computer Science, BSc

Oct 2016 - Dec 2020

Final grade: 98/110

University of Padua, Italy

Certifications

- Oracle OCI 2024 Generative AI Certified Professional Jul 2024
- Oracle OCI 2023 AI Certified Foundations Associate Dec 2023
- Oracle OCI 2023 Certified Data Science Professional Aug 2023

Selected projects

- Studying and Improving Motion Indeterminacy Diffusion for Stochastic Trajectory Prediction
Enhanced a diffusion-models-based approach for stochastic trajectory prediction, implementing advancements proposed by OpenAI and Stanford University. Achieved superior quantitative and qualitative results compared to baseline experiments. [GitHub repo](#) and [publication](#).
- Smart Assistant Interaction through Visual Gesture Recognition
Designed a gesture recognition application to empower deaf individuals in controlling home automation. Utilized Machine and Deep Learning algorithms, incorporating computer vision libraries like MediaPipe and OpenCV for seamless system development. [GitHub repo](#) and [publication](#).