



Giorgio Carbone

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Profile

I am an aspiring data scientist who enjoys connecting the dots by the use of technology.

I am pursuing a Master's Degree in Data Science at University of Milano-Bicocca, where I'm receiving solid training in all the major fields of Data Science.

Earning a bachelor's degree in Chemistry has allowed me to develop strong analytical, mathematical and statistical skills, which have proven useful in my current career path.

I consider myself a kind, empathetic, creative and determined person. I am pragmatic and organized, yet flexible.

Although I have an interest in the discipline of data science in its entirety, I am particularly drawn to digital signal and image processing and analysis, as well as the latest ML topics, such as Computer Vision, NLP and Generative Models.

Education

University of Milano-Bicocca

Milan, Italy

MASTER'S DEGREE IN DATA SCIENCE (LM91)

Sept. 2021 - today

- Delivered partly in English
- Relevant courses: Machine learning, Decision Models, Data Management, Data Visualization, Statistical Modeling, Data Semantics, Foundations of Deep Learning, Foundations of Computer Science, Foundations of Probability and Statistics
- GPA: 29.8/30

University of Milano-Bicocca

Milan, Italy

BACHELOR'S DEGREE OF CHEMICAL SCIENCES AND TECHNOLOGIES (L-27)

Sept. 2016 – Oct. 2020

- Graduation grade: 110/110 and honors
- Certification: *Chemistry Eurobachelor*®

Liceo Statale Giuseppe Terragni

Olgiate Comasco (CO), Italy

SCIENTIFIC HIGH SCHOOL WITH APPLIED SCIENCE OPTION

Sept. 2011 – July 2016

- Final grade: 91/100

Skills

Coding Python (Pandas, Scikit-learn, NumPy), R (dplyr, readr, tibble, stringr), LaTeX, SQL (MySQL), Bash

Data Visualization Tableau, Python (Matplotlib, seaborn, Plotly), R (ggplot2)

Tools Knime, Git, MongoDB, Microsoft Office Suite

Languages Italian (native speaker), English (full professional knowledge – C1 listening and reading | B2 writing)

Certifications Chemistry Eurobachelor®, Bbetween Lingue – Inglese C1, AICA e4job - Cultura Digitale per il Lavoro

Experience

University of Milano-Bicocca

Milano, Italy

R&S Intern - Full time - [GitHub](#)

ott 2019 – gen 2020

- Data analysis of the results of computational simulations of the water adsorption process on atmospheric particulate matter models.
- Developed a script in Python, which performs a frame-by-frame cluster analysis of the simulations, using the DBSCAN clustering method (Scikit-learn), aggregates the results (Pandas, NumPy), analyzes the properties of the clusters, and visualizes the results (Matplotlib, pyplot).

Machine learning: credit card transactions fraud detection

Machine Learning, Knime, Classification

- Processed a dataset containing 284,807 records related to credit card transactions performed by European citizens during two days in September 2013.
- The objective of the work was to identify the most suitable Machine Learning technique and model for classifying fraudulent transactions.

Analysis and visualization of air quality near Milan.

Data Analysis, Data Visualization, Tableau, Python

- Integrated and aggregated data on pollutant concentration surveys in the Milan urban agglomeration from 1996 to 2021.
- Built a dashboard in Tableau to visualize the trend and evolution of air quality in the Milan agglomeration over the past 15 years and relate it to meteorological and anthropogenic factors.

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Montano Lucino (CO), 23/10/2022

