



Mirko Verardo

Phone number: (+39) 3400844748 (Mobile) | **Email address:** mirko.verardo@gmail.com |

Website: <https://github.com/mirko-verardo> | **LinkedIn:** [Mirko Verardo](#)

● ABOUT ME

I'm a Data and Software Engineer with 5+ years of experience in databases and backend systems. Now I'm specializing in Data Science (Postgraduate Master's degree in thesis, GitHub portfolio of Machine Learning projects). I have strong foundation in SQL, Python, R, Docker, ETL and data modeling, looking to apply my skills.

I'm currently working for my regional territory (FVG) as freelance data engineer where my work is about improving data flows on complex authorization processes.

Also, I'm currently supervising as freelancer the transition to a service oriented architecture for an ecommerce company.

In the past, I worked for a cancer center where I was involved in building a centralized platform for the researchers, aimed at supporting them to collect and query heterogeneous data.

● PROJECTS

Deep Learning CNN CIFAR-10

A Python project where I've achieved 88% accuracy score on test set on CIFAR-10 dataset using some deep learning techniques (with max 2 FC layers and other constraints).

Link https://github.com/mirko-verardo/Deep-Learning-CNN-CIFAR-10/blob/main/deep_learning_cnn_mv.ipynb

Sentiment Analysis with BoW and Transformers on Trustpilot reviews dataset

A Python project where I've done sentiment analysis on a Trustpilot real reviews dataset using some text mining techniques like BoW and Transformers. I've also done fine-tuning on a BERT pre-trained model.

Link https://github.com/mirko-verardo/Sentiment-Analysis-with-BoW-and-Transformers/blob/main/text_mining_nlp.ipynb

Clustering on Vieffetrade ecommerce dataset

A Python project where I've grouped similar products in Vieffetrade ecommerce dataset using some unsupervised learning techniques (clustering).

Link https://github.com/mirko-verardo/Similar-products-clustering/blob/main/advanced_ML_project_mirko_verardo.ipynb

PyTorch Multiclassification

A Python project where I've done classification on a hair dataset with tensors and CNN. I've also used GridSearchCV for hyperparameters tuning and overfitting avoiding.

Link https://github.com/mirko-verardo/PyTorch-Multiclassification/blob/main/pytorch_multiclassification.ipynb

Environmental Data Analysis

A supervised machine learning project in R that forecasts minimum temperatures in Florence.

Link <https://github.com/mirko-verardo/Environmental-Data-Analysis>

Time series analysis

I've done a non-seasonal time series analysis in R about Nike stock prices using ARIMA model.

Link <https://github.com/mirko-verardo/Time-series-analysis>

WORK EXPERIENCE

REGIONE AUTONOMA FRIULI VENEZIA GIULIA – TRIESTE, ITALY

DATA ENGINEER – 05/2025 – CURRENT

I'm currently working for my regional territory (FVG) as freelance data engineer and database expert in the PNRR project. My work is about improving data flows on complex authorization processes for the central environmental direction.

VIEFFETRADE SRL – PORDENONE, ITALY

SOFTWARE ENGINEER – 2017 – CURRENT

Design and development of a complete multilingual ecommerce platform built from scratch. The main activities where I'm involved as freelancer are the databases design and the back-end development. At the moment, due to maintainability reasons and company business growth, I'm supervising the transition to a service oriented architecture where one of the components will be the Adobe Commerce platform (data flows and API development).

NATIONAL CANCER INSTITUTE CRO AVIANO – PORDENONE, ITALY

SOFTWARE ENGINEER – 16/07/2020 – 16/07/2023

Supporting the scientific direction in the design of a centralized platform for collecting heterogenous data (clinical and genomics) within the institute. The platform consisted of some services, such as custom webapps, databases and software including Mirth, REDCap and i2b2.

The main activities where I was involved were the following:

- definition of data and work flows
- design and implementation of some components

Also, I was teacher of 2 courses for the internal IT training program for researchers:

- introduction to relational databases
- introduction to programming and the R language

NATIONAL CANCER INSTITUTE CRO AVIANO – PORDENONE, ITALY

INTERN STUDENT – 05/08/2019 – 31/10/2019

Design and implementation according to the standard IDEF1X of a database for the genomic variants management in VCF format.

CLABER SPA – PORDENONE, ITALY

INTERN STUDENT – 01/02/2013 – 28/02/2013

Supporting the company internal team in the development of a software written in C communicating with irrigation control units.

EDUCATION AND TRAINING

2024 – CURRENT Firenze, Italy

POSTGRADUATE MASTER'S DEGREE IN DATA SCIENCE AND STATISTICAL LEARNING Università degli Studi di Firenze

Level in EQF EQF level 8 | **Type of credits** CFU | **Number of credits** 60

2016 – 2019 Udine, Italy

MASTER'S DEGREE, MULTIMEDIA COMMUNICATION AND INFORMATION TECHNOLOGY Università degli Studi di Udine

LM-18 Computer science

Final grade 110/110L | **Level in EQF** EQF level 7 | **Type of credits** CFU | **Number of credits** 120 |

Thesis Database for the genomic variants management

L-31 Computer sciences and technologies

Final grade 103/110 | **Level in EQF** EQF level 6 | **Type of credits** CFU | **Number of credits** 180 |

Thesis Databases supporting product testing: analysis tools

2008 – 2013 Pordenone, Italy

DIPLOMA DI PERITO INDUSTRIALE CAPOTECNICO ITIS JF Kennedy

Field of study Computer science | **Final grade** 100/100 | **Level in EQF** EQF level 4

● SKILLS

database | SQL | Machine Learning | Data science | Data modeling | ETL | Python (computer programming) | R | Deep Learning with Pytorch | Text Mining | NLP-transformers | MySQL | PostgreSQL | Oracle Relational Database | Docker | Git | Linux

● LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● DRIVING LICENCE

Driving Licence: B

Pordenone , 10/10/2025