



# Mirko Verardo

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## 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](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](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](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](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

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🏢 **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

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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

**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	
<b>ENGLISH</b>	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