

Gabriele Cola

[Webpage](#) | [LinkedIn](#) | [GitHub](#) | [Blog](#)

📍 Milan, Italy

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ABOUT ME

As a statistics graduate, I have a deep understanding of statistical theory and methods, as well as experience using statistical software and programming languages. I am particularly interested in **Machine Learning** and have experience working with **Class Imbalance**

TECHNICAL SKILLS

Languages : Python, R, SQL
Libraries : Keras, PyTorch, Scikit-Learn, Pandas, Numpy, Seaborn, Tidyverse
Tools : Git, Colab, Jupyter Notebook, R studio, LaTeX

EXPERIENCE

Junior Associate - Quantative Risk Management
UCFA

April 2023 – Present
Milan, Italy

- Implemented portfolio optimization strategies using Python, leveraging deep learning techniques

EDUCATION

University of Cattolica del Sacro Cuore

Master's Degree in Data Analytics

Associations: UCFA

Relevant coursework: Advanced Programming and Deep Learning, Stochastic Process and Optimization for ML, Data Visualization and Text mining, Bayesian Modelling, Computational Statistics

Milan, Italy,

January 2022 – Present

University of Federico II

Bachelor's Degree in Statistics

Thesis: "The Imbalance problem in Classification" 📄

Relevant coursework: Machine Learning, Databases, Time Series, Probability, Inferential Statistics, Graph Theory, Linear Algebra, Operational Research

Naples, Italy,

Oct 2018 – July 2021

SELECTED PROJECTS

Blood Cells Cancer analyzed via CNN

PyTorch, Pandas, Scikit Learn



- Analyzed 3242 images from 89 patients
- Pre-processing images such as: Resizing, Crop
- Classify 4 types of stages of cancer using **AlexNet** and **VGG16**

Named Entity Recognition for GUM

Keras, PyTorch, Spacy, Scikit Learn



- Analyzed a corpus with more than 62K words
- Topic modelling using **LDA** and **NMF**
- Using **Bi-LSTM** and **BERT** to accomplish the NER task

LANGUAGES

- **English:** Professional working proficiency
- **Italian:** Native