Gabriele Cola

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Education

- **Università Cattolica del Sacro Cuore** — Milan,Italy
  Master's Degree in Data Analytics for Business — *December 2021- Current*
  Relevant coursework: *Bayesian Modelling, Computational Statistics, Advanced Programming and Deep Learning, Stochastic Process and Optimization for ML, Data Visualization and Text mining*

- **Università degli Studi di Napoli Federico II** — Naples, Italy
  Bachelor's Degree in Statistics — *October 2018 - July 2021*
  Grade: *102/110*
  Thesis: *"The Imbalance problem in Classification"*
  Relevant coursework: *Statistical Learning, Operational Research, Databases, Probability, Inferential Statistics, Time Series, Graph Theory, Linear Algebra,Machine Learning*

Technical Skills

- **Languages**: Python, R, SQL
- **Libraries**: Scikit-Learn,Seaborn,Numpy,Pandas,Keras, Tidyverse, Caret
- **Statistical Model**: Linear Regression,GLM,Bayesian model,Anova,A/B Testing
- **Machine Learning**: **Supervised Learning** (KNN,RandomForest,XGBoost,SVM,Naive Bayes)
  Unsupervised Learning (PCA,Cluster)
- **Tools**: R Studio,Jupyter Notebook, Git, LaTex, Colab
- **Certification**: DataCamp certifications

Selected Projects

- **A Bayesian Approach to contrast CO2 Emission (Bayesian Model,Regression)**| **Co-authored** : The aim of this project is to analyze how the count of CO2 emission are affected by some variable (i.e Cylinders, Engine size, Transmission). The models adopted are the Bayesian Model, in particular the Linear Regression,Poisson Regression, Hierarchical model. Tech: Stan,Jags, R Markdown; (July '22)
- **GLM methods to deal with count data (GLM,Regression)**| : The aim of this project is to analyze how the count of rented bikes are affected by some variables (i.e Temperature, Weather conditions). The models adopted are GLMs, in particular the ones that deal with count data. Tech: Tidyverse, R Markdown; (March '22)

Languages

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