



LORENZO DE SIMONI



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EDUCATION

Master's Degree in Statistics and Data Science, *Università degli studi Milano-Bicocca* October 2023-Present | Milan, Italy
· **Relevant Courses:** Stochastic Processes, Machine Learning, Statistical Learning, Bayesian Statistical Models, Advanced Statistics, Data Mining, Microeconometrics, Economics for Data Science, Computational Statistics, Spatial Statistics.

Bachelor's Degree in Statistical Sciences, *Università degli studi di Padova* | Padova, Italy
· **Relevant Courses:** Statistics, Statistical Inference Theory, Probability, Database, Processing Systems, Analysis of Time Series, Multidimensional Data Analysis.
· **Dissertation:** "*Time Series Analysis of milk sales, in collaboration with Alì S.p.A.*"- I worked with a supermarket company to analyze multivariate time series of milk sales. Supervisor: Prof. L. Bisaglia.

WORK EXPERIENCE

Cashier and shop assistant, *Alì Spa* 06/2019 - 06/2023 | Padova, Italy
· Cashier responsible at an Alì outlet. I worked full time for Alì Spa as a cash manager, shopping assistant and logistics management. During my four years of work I developed logistics management skills and ability to work in a team. I learned how to use the cash registers, manage the company's internal software, and do counting and closing the cash register. I did the work activity during my bachelor degree's programs. I have also collaborated with Alì Spa to do an analysis of multivariate time series for my dissertation. It was for me an opportunity to understand how a company actually manages data and what goals it sets are achieved through the use of statistical models.

PROJECTS

Lab Data Challenge - STMicroelectronics Collaboration, *Python, R*
· **Year:** 2024 (May-June)
· Participated in an intensive data analysis laboratory challenge in collaboration with **STMicroelectronics** (leading global semiconductor company) focused on solving a real-world industrial problem. The goal was to analyze a complex dataset to build a classification algorithm that was of interest of the company. Gained practical experience in industry-driven data science applications, enhancing skills in data handling, analysis, and teamwork. The results were presented to Technical director Danilo Pietro Pau (Pau's post of the challenge).

Other Projects, *R Studio*

· Here are some of the projects I worked on in college. When I was in Padova, during my Bachelor's degree, I did an analysis of Vinho Verde consumers' perceived quality through principal component analysis and factor analysis.
When I was in Milano, during my Master's degree I worked extensively on various machine learning algorithms. In the first project, I analyzed students' stress levels in collaboration with other classmates, addressing a classification problem using Support Vector Machines, Neural Networks, and Decision Tree algorithms.
In a different project I tried to forecast the financial worth of football players using different Statistical Learning algorithms.
In my final year, I completed a capstone project for the Bayesian Statistical Models exam, where I compared various models for predicting stock options. The project involved implementing dynamic regression models using the bsts package in RStudio, with a focus on model performance and predictive accuracy.
For the Data Mining course, I developed a predictive model in R to estimate real estate prices in Milan. The project involved data preprocessing, feature engineering, and model selection using Linear Regression, LASSO, and Random Forest. Model performance was assessed through cross-validation and evaluated using MAE.

IT SKILLS

· **Data Analysis:** Python, R, Java, SQL, STATA, SPSS
· **Certifications:** Lean White Belt Six Sigma, SAS Certified Specialist: Base Programming Using SAS 9.4

PERSONAL INTEREST

· **Sports:** I have played soccer for over ten years, an experience that has helped me develop strong teamwork, discipline, and goal-oriented determination. Competing in diverse settings also gave me the opportunity to connect with people from various backgrounds.
· **Music:** I began studying guitar during middle school as part of a specialized music program. Playing the guitar allows me to express emotions and ideas through sound, and I continually enjoy exploring diverse rhythms and musical styles.

LANGUAGES

· **Italian:** Native
· **English:** Fluent, B2
· **Spanish:** B2