# LORENZO DE SIMONI

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• LorenzoDeSimoni

 $in \ {\rm lorenzodesimoni}$ 

• Milan, Italy

### **EDUCATION**

M.Sc in Statistics and Data Science, Università degli studi Milano-Bicocca

10/2023-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.

B.Sc 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.

Scientific Diploma, Gymnasium Patavinum High School

09/2011 - 06/2016 | Padova, Italy

## WORK EXPERIENCE

### Cashier and Shop Assistant, Alì Spa

06/2019 - 06/2023 | Padova, Italy

- · Worked full time during my Bachelor's degree as a cashier and logistics assistant in a large retail outlet.
- · Gained experience in customer service, cash register operations, inventory handling, and ability in team working.
- · Used internal company software for cashier management, transaction recording, and daily closing operations.
- · Collaborated with the company on my Bachelor's dissertation, conducting a multivariate time series analysis on milk sales.

### **PROJECTS**

## Lab Data Challenge - STMicroelectronics Collaboration, Python, R

05/2024 - 06/2024 | Milan, Italy

- · Participated in an intensive data science challenge in collaboration with **STMicroelectronics**, aimed at solving a real-world industrial classification problem.
- · Built and validated a classification model based on a complex industrial dataset, gaining hands-on experience in data preprocessing, modeling, and evaluation using Python and R.
- · Worked in a team environment and presented the results directly to the company's Technical Director, Danilo Pietro Pau. in

### Other Projects, R Studio

- Student Stress Classification Collaborated on a classification problem to predict students' stress levels using SVM, Neural Networks, and Decision Trees. •
- Football Player Value Forecasting Built predictive models to estimate the financial value of football players using Statistical Learning algorithms like bagging, boosting, random forest, and neural networks. •
- Stock Option Prediction with Bayesian Models Compared several Bayesian models to forecast stock options using the bsts package. I used dynamic regression models to compare classic and Bayesian approaches.
- Housing Price Prediction Milan Developed a supervised learning model in R to estimate real estate prices in Milan. I applied data cleaning, feature engineering, model selection, and comparison using Linear Regression, LASSO, and Random Forest, evaluating performance with MAE and cross-validation.
- Vinho Verde Wine Analysis Performed principal component and factor analysis to study consumer perception of Vinho Verde wine quality. •

## IT SKILLS

- · Programming Languages: Python, R, Java, SQL
- · Statistical and Data Analysis Tools: Rstudio, STATA, SPSS, SAS (Certified)
- · Machine Learning Libraries: PyTorch, caret, glmnet, randomForest, xgboost, Tensorflow, OpenAI API, LLMs
- · Data Visualization: ggplot2, matplotlib, tidyverse
- · Database and Query: MySQL
- · Development and Environments: Eclipse, VS Code, Git, GitHub
- · Certifications: Lean Six Sigma White Belt, SAS Certified Specialist: Base Programming Using SAS 9.4 §Sas

## PERSONAL INTERESTS

- · Academic Interests: Machine Learning, Forecasting Models, Bayesian Statistics, Feature Engineering, and Explainable AI.
- · Sports & Hobbies: Football, Tennis, Music, and Travel.

## **LANGUAGES**

· Italian: Native

· English: Fluent, B2 □

· Spanish: B1