Paris
+39 388 623 2481
elia.parolari@gmail.com
Nationality: Italian

Elia Parolari

Education

2024 - Present **MSc in Physics of Complex Systems**, *Politecnico di Torino, Sissa, ICTP, Université Paris Cité, Sorbonne Université, Université Paris-Saclay*, IT, FR.
- **Relevant subjects:** Statistical Physics, Disordered Systems, Algorithms for Optimization and Inference, Machine Learning, Stochastic Processes, Data Science, Dynamical Systems.
- **Current GPA:** 28.5/30.

2021 - 2024 **BSc in Mathematical and Computing Sciences for Artificial Intelligence**, *Università commerciale Luigi Bocconi*, Milano, IT.
- **Relevant subjects:** Algebra and Analysis, Statistics, Probability, Computer Science, Data Science, Optimization, Machine Learning, Deep Learning, Decision Theory, Game theory, Financial Mathematics.
- **Final grade:** 110/110.
- **Associations:** Team leader at the Bocconi Data Science Student Association.

Internships and Experiences

2024 - 2025 **Data Analytics Research Project**, *Saba Forging*, Remote
- Classified company articles (metal components used in agricultural machinery) by values using Recency, Frequency, Monetary (RFM) analysis, linear trend analysis, and the Croston method for forecasting.

2023 - 2024 **Team Leader - Customer Segmentation Project**, *Bocconi Statistics and Data Science Student Association*, Milano, IT
- Led a project on customer segmentation using unsupervised learning and NLP on transactional data, identifying user clusters with similar spending patterns to support targeted marketing strategies.

Summer 2023 **Computer Vision Engineer Intern**, *Polytec*, Borgo Chiese, IT
- Gained end-to-end experience on production-line robots: camera and lighting setup and calibration, data collection, computer vision algorithm development (classical CV and convolutional networks), software integration, and testing.

Skills

Languages: Italian (Mother tongue), English (Fluent).

Programming and Tools: Python, HTML, CSS, LaTeX.

Libraries: Pandas, Scikit-learn, PyTorch, Statsmodels.

Academic Projects

- Monte Carlo Method heuristics for random K-SAT problems.
- Deep learning for breast cancer detection in ultrasound images.
- Computational analysis of neuronal responses to visual stimuli in mice.
- Unsupervised learning based customer segmentation on transactional data.
- Machine learning for predicting oxygen deficiency in cancer cells from high-dimensional gene expression data.
- Dynamical system implementation of Hodgkin-Huxley neural network.

Others

Summer jobs Tourist receptionist, product photographer, waiter, private tutor (mathematics and physics).

Hobbies Hiking and fishing.