



## Anna Trevisan

Date of birth: 29/04/2000

MSc Energy engineer

Mathematical engineer

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🌐 LinkedIn Profile

## SUMMARY

- **Energy Data Science Analyst** with over 1,5 year of experience in developing Machine Learning systems for energy optimization projects
- Delivered 3 end-to-end optimization systems based on ML solutions for complex industrial systems in the Energy and Food sectors.

## EDUCATION

- **Politecnico di Milano, Energy engineering** 2022-2024  
*Master program in energy engineering, Energy use and built environment*
- **Chalmers - University of technology, Göteborg** 2023  
*Erasmus: Sustainable energy systems - Structural and building technology*
- **Politecnico di Milano, Mathematical engineering** 2019-2022  
*Bachelor degree*
- **Additional training**
  - Master Industrial AI

## EXPERIENCE

**Mipu Energy Data** Feb 2024-current  
*Energy Data Science Analyst* Dueville - VI

- Reduced energy costs of the optimized system of more than 15%
- Lead end-to-end development of Machine Learning projects, including data collection, preprocessing, exploratory data analysis, feature engineering, model selection, training, and performance evaluation
- Collaborate closely with clients to gather data and technical requirements, translate business needs into technical specifications, and present project updates, ensuring alignment and stakeholder satisfaction
- Mentor and manage interns, providing technical guidance and ensuring their integration into project workflows.
- Coordinate teams, overseeing task planning, technical execution, and overall progress to meet project deadlines and quality standards
- Develop and maintain SDKs to transition offline-trained models into production environments, adhering to software engineering best practices and system integration constraints.
- Configure and maintain optimization software based on client objectives, including cost function design, constraint implementation, and post-optimization result analysis

**Olympic Mathematics Training** 2015-2018  
*Summer math camp for selected students in the field of Olympic Mathematics* Paderno

**Puffins childcare** 2017  
*Teacher assistant at nursery school with children from 6 months to 4 years old* Cahersiveen, Ireland

## TECHNICAL SKILLS

- **Data Science / AI:** Machine Learning, Deep Learning, Applied Machine Learning, Optimization, Data Engineering, Data cleaning, Data visualization, Preprocessing, Feature Engineering, Model optimization, Time Series Analysis, Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn, Pytorch, Tensorflow, Keras, Streamlit, MLOps Digital Twin, Classification and clustering, Data storytelling, Predictive maintenance
- **Programming:** Python, R, SQL (basic knowledge, currently upskilling), Matlab, LaTeX, Simulink
- **Energy Software:** OpenStudio, IDA ICE, Wufi, Autocad
- **Energy Field:** HVAC design, Energy Management, Indoor thermal climate and comfort, Heating and cooling systems, Building energy performance, Energy Optimization
- **Business / Management:** Project management, agile workflow, time management, production planning and control

–**Productivity Tools:** Office package (Excel, Word, PowerPoint), ClickUp, Github

–**Languages:** Italian (mother tongue), English (C1), French (Intermediate)

## PROJECTS

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- Master thesis** 2024  
*Mathematical modeling and energy optimization of a district heating system with machine learning* Dueville (VI)
  - Industrial AI project comprehensive of data collection and cleaning, data analysis, exploratory data, ML/DL algorithms implementation, tuning, testing and validation
  - Topics: Time series analysis, machine learning, deep learning, genetic algorithm, optimization, district heating, heat storage, CHP, boilers, white certificates, thermal energy demand forecasting
  - Softwares used: Python, Overleaf, Office package, Sowftware Development Kit, Rebecca, Nia
- HVAC: Design of operating theater in Hospital** 2023  
*Project work, university - Design of complete HVAC system for OR, sw: Autocad* Milano
- Project management - installation of PV system in a school in Milan** 2024  
*Project work, university - Installation of PV system* Milano
- Digital twin for energy systems management - project** 2023  
*Project work, university - Tools for the creation of a digital twin, sw: Matlab, Simulink* Milano
- Design of a commercial office and supermarket building** 2023  
*Project work, Chalmers university - Holistic design of a building, sw: Simulink, IDA ICE, Wufi, Autocad* Göteborg
- Tidal power generation, scientific paper** 2023  
*Project work, Chalmers university - Writing of a scientific paper on tidal power generation, sw: LaTeX* Göteborg
- Green building - energy optimization** 2023  
*Project work, university - Energy analysis and optimization, sw: Openstudio, Office* Milano
- Models and methods for inferential statistics** 2021  
*Project work, university - Linear regression analysis and data prediction, sw: R* Milano

## PERSONAL COURSES

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- Project management: lean and agile workflows 2025
- Course expert in energy management 2025
- Information design 2025
- Python course for mathematical engineering, Politecnico di Milano 2020
- Introductory course in Matlab for mathematical engineering, Politecnico di Milano 2019
- Summer study trip, Cahersiveen, Galway 2015-2017

## SOFT SKILLS AND INTERESTS

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**Soft Skills:** Team player, stakeholder communication, problem solving, nitpicky attention to details, cultural awareness, quick learning

**Hobbies:** Bake, knit, crochet, cooking, embroidery, Formula1

**Sports:** Classic dance, modern dance, dance competitions, dance shows, ski, scout, tennis

## ACHIEVEMENTS AND CERTIFICATIONS

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- TOEIC level C1 2022  
*English certification*
- Mathematics team competition - mixed and female 2018-2019  
*Participation in national semifinals and finals mathematics team competition, Cesenatico*
- Commendation letter - lettera di encomio 2016-2019  
*Recognition as a meritory student, every semester from the third to fifth year*
- Maffei's Award 2014  
*Award as the best student in the school*