



Anna Trevisan

Date of birth: 29/04/2000

MSc Energy engineer

Mathematical engineer

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🌐 LinkedIn Profile

EDUCATION

- **Master Industrial AI** 2024
Industrial AI bootcamp
- **Politecnico di Milano, Energy engineering** 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** 2022
Bachelor degree

EXPERIENCE

- **Mipu Energy Data** feb 2024
Energy data science analyst Dueville - VI
 - 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. Work side-by-side with software engineers to design robust, scalable deployment architectures
 - Configure and maintain optimization software based on client objectives, including cost function design, constraint implementation, and post-optimization result analysis
- **Olimpic Mathematics Training** 2015-2018
Summer math camp for selected students in the field of Olimpic 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, Sklearn, Pytorch, Tensorflow, Keras, Digital Twin, Classification and clustering, Data storytelling, Predictive maintenance, FastAPI, Streamlit, MLOps, Understanding of CI/CD concepts with Github, ETL, LLM
- **Programming:** Python, R, C, SQL (basic knowledge, currently upskilling), Power BI, Matlab, LaTeX, Simulink, Azure/Databricks (basic knowledge, currently upskilling)
- **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
- **Business / Management:** Project management, agile workflow, time management, supply chain management, production planning and control, procurement and supply chain analytics
- **Productivity Tools:** Office package (Excel, Word, PowerPoint), ClickUp, Github
- **Languages:** Italian (mother tongue), English (C1), French (Intermediate)

PROJECTS

- 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 about 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

- 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

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

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

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

ACHIEVEMENTS AND CERTIFICATIONS

- TOEIC level C1 2022
English certification
- Mathematics team competition - mixed and female 2018-2019
Partecipation at national semifinals and finals mathematics team competition, Cesenatico
- Commendation letter - lettera di encomio 2016-2019
Aknowledgement as deserving student, every semester from third to fifth year
- Maffei's Award 2014
Award as school's best student