Giulia Talà

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Based in Milan, Italy.

EDUCATION

B.S. Management Engineering   July 2025
Politecnico di Milano

Relevant coursework: C & R Language, Methods of Operational Research Optimization, Economics II, Calculus I & II, Physics I & II, Probability & Statistics, Business Data Analytics, Accounting & Organizational Management

Liceo Scientifico Tradizionale Enrico Fermi   June 2022

SKILLS

Programming Languages: Python, C, JavaScript, HTML, CSS
Tools: Git/GitHub, VS Code, LaTeX, Microsoft Office Suite, SQL (MySQL)
Frameworks: React, WordPress, FastAPI
Data Science & Machine Learning Libraries: pandas, NumPy, Scikit-learn, Keras, TensorFlow, Matplotlib, Seaborn

Languages: Brazilian Portuguese (native), Italian (native), English (C1), Spanish (A2)

PROJECTS

FED effect on stock market using NLP | *Python, Keras, Matplotlib, pandas, numpy, FinBert*	June 2025
Market's Seasonality Visualizer Website | *Python, FastAPI, React*	December 2024
Granger Causality-Driven LSTM Modeling for Stocks Correlations Prediction | *Python, Keras...*	December 2024
DTW Clustering in SP&500 for portfolio diversification | *Python, Keras, Pyplot*	December 2024

EXPERIENCE

Head of Software Engineering at POLIMI Starting Finance Club \| *Head*   January 2024 – Present
Involved in the club and head of the Quantitative Finance division.

- Managed to secure 4.500€ in funding from Politecnico di Milano for the association's activities.
- Led the Quantitative Finance team as head of software engineering, overseeing project management and recruitment.
- Guided programmers towards high coding standards, ensuring fluidity and coherence across projects while maintaining code quality and implementing project management methodologies for timely project completion.
- Developed IT projects within a team using Git, GitHub, Agile methodologies, and CI/CD practices.
- Utilized popular libraries for machine learning, quantitative finance, and data science; applied advanced data analysis and visualization techniques.

Winner of the ASSOSoftware AI Hackaton \| *AI Programmer*   October 2024
With a team of another 2 programmers, we won the ASSOSoftware AI Hackaton, about AI applications onto management systems software: we built a model for our application that aimed at being a tool to junior fund managers, helping them towards informed portfolio diversification decisions by using a dynamic warping clustering algorithm, sentiment analysis and stock prediction.

Winner of Data Strategy Hackaton by PMDS \| *Data Scientist*   October 2024
First place at the Data Strategy Hackaton organized by Polimi Career Service and Polimi Data Scientists Student Club, presenting a business strategy after analysing a data set on a Brazilian e-commerce company.

Participant at StartHack \| *AI Programmer*   March 2025
Selected to participate in StartHack, one of Europe's leading entrepreneurial hackathons, held in St. Gallen.

Second place at the GDSC AI Hackaton, fintech track \| *AI Programmer*   April 2024
With a team of another 3 programmers, we won second place at the Google Developers Student Club AI Hackaton, in the fintech track, by building an LLM-based application.

Second Place at the Alkemy AI Hackathon \| *AI Programmer*   September 2024
Collaborated with a team of three programmers to win second place at the Alkemy AI Hackathon. Developed the best-performing model for predicting customer likeability of new online products, leveraging XGBoost Classifier, deep data analysis, SHAP library, and statistical methods for feature importance.