

Andrea Serra

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EDUCATION

[Politecnico di Torino](#)

Master's Degree in Artificial Intelligence and Data Analytics

2025 - Now

Bachelor's Degree in Computer Engineering

2022 - 2025

[Massachusetts Institute of Technology - MITx](#)

Sep - Dic 2025

Machine Learning with Python: from Linear Models to Deep Learning

[Edisu Scholarship](#) for promising students who are up-to-date with their exams.

INTERNSHIPS

- **Sentric S.r.l. - WebScraping in Python** March - May 2025
Developed backend automation tools and web scraping pipelines using **Python**, **Requests**, **Selenium**, and **Selectolax**. Collaborated through Git-based version control and Agile task management while improving internal data collection processes.

PROJECTS

- [Ultima Corsa – Full Stack Web Application](#) July 2026
*Developed a full-stack web application using **React**, **Express.js**, and **SQLite**. Implemented user authentication with **Passport.js**, REST APIs, session management, and game logic. Deployed the application using **Vercel** (frontend) and **Render** (backend), integrating a custom domain and production-ready configuration.*
- [FinanceBot](#) February 2023
*Developed a quantitative trading bot using **Python**, **Pandas**, and the **MetaTrader 5 API** to collect and analyze financial data, implementing an investment strategy based on **Bollinger Bands**.*
- [Dancing in Space](#) June 2022
*Led the team to win 1st place at the **European RoboCup OnStage**. Programmed robots in **Arduino (C++)**, to perform synchronized routines to music.*

TECHNOLOGIES AND LANGUAGES

- Python, Java, JavaScript, C, Rust, HTML, CSS, React, Node.js, Express.js
- Git, FastAPI, Flask, Django, TensorFlow, Pandas, PostgreSQL, MySQL, SQLite
- Italian: Native, English: B2 (Upper Intermediate)