Lorenzo **Pegorari**

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Education

Polytechnic University of Milan   *Cremona, Italy*
Bachelor's Degree of Science in Computer Science and Engineering   *Sep. 2021 - present*

Scientific High School "Gaspare Aselli"   *Cremona, Italy*
High School Diploma in Scientific Studies, Graduated with 3.25/4.0 GPA   *Sep. 2016 - Jun. 2021*

Side Projects

Open Source

BRL-CAD   *Online*
Open Source Developer   *Mar. 2025 - present*
- Contributed to BRL-CAD's new GUI arbalest.
- Technologies used: C++, Qt6.

Personal Projects

Simply Colorful - Theme for the note-taking application Obsidian   *Online*
Creator | Main developer | Main designer   *Oct. 2024 - present*
- This theme has gathered over 4000 downloads (as of April 24th, 2025).
- Technologies used: SASS, CSS, Grunt (JavaScript task runner).

Skills

Front-end	SASS, CSS3, HTML5
Programming	C, C++ (Qt6), Python 3 (Jupyter Notebook)
Other languages	RISC-V, MIPS, LaTeX, SPASS
Softwares	Git, Google Sheets, Microsoft Excel, Microsoft Word
Languages	Italian (Native), English (C1 Proficiency)

Certificates

| 2020 | **Cambridge English B2 First**, Overall Cambridge English Scale score: 180 (CEFR Level C1) | *ID: B2962291* |
| 2019 | **Cambridge English B1 Preliminary**, Overall Cambridge English Scale score: 163 (CEFR Level B2) | *ID: 196IT0600133* |

Competitions

| 2023 | **ITACPC 2023,** partecipated as a team of 3 people and placed 49th out of 218 teams | *Online* |

Extracurricular Courses

Worlds generated by code: The Generative AI   *Polytechnic University of Milan*
8 HOURS COURSE HELD BY ANDREA BELLI, ENTERPRISE ACCOUNT EXECUTIVE AT LINKEDIN   *Nov. 24th, 2023*
- Learned the basics of how Large Language Models operate.
- Learned the basics of Prompt Engineering to obtain as fast as possible the clearest output from a LLM.
- Discussed the ethics, the opportunities and the risks of using LLMs.

Boolean Data Week   *Online*
8 HOURS WORKSHOP HELD BY BOOLEAN   *Nov. 20th-24th, 2023*
- Learned the basics of Data Analysis with Python and Tableau.
- Modified, cleaned and visualized an example dataset of 930k movies to find insights into cinematography.

LinkedIn to look for a job
Polytechnic University of Milan

2 HOURS SEMINARY HELD BY <u>ANDREA BELLI</u>, ENTERPRISE ACCOUNT EXECUTIVE AT LINKEDIN   *Nov. 17th, 2023*

- Learned to create the perfect LinkedIn profile as a support for finding the desired job.

Boolean Coding Week
Online

8 HOURS WORKSHOP HELD BY <u>BOOLEAN</u>   *Oct. 16th-20th, 2023*

- Learned the basics of HTML, CSS and JavaScript for front-end web developing.
- Created 3 examples of web games (Minesweeper, Stacker and Frogger).

Rapid Prototyping: Open Data e Machine Learning (<u>GitHub Repo</u>)
Polytechnic University of Milan

4 HOURS WORKSHOP HELD BY <u>JACOPO DE STEFANI</u>, PH.D IN TIME SERIES ANALYSIS AND FORECASTING THROUGH MACHINE LEARNING   *Dec. 16th, 2022*

- Modified, cleaned and visualized an example dataset of 5110 people's personal and medical indormation using Python, Jupyter Notebook, pandas and seaborn.
- Prototyped a ML model capable of predicting an individual's chance of having a stroke using scikit-learn.

Artificial Intelligence: Instructions for use
Polytechnic University of Milan

2 HOURS SEMINARY HELD BY <u>JACOPO DE STEFANI</u>, PH.D IN TIME SERIES ANALYSIS AND FORECASTING THROUGH MACHINE LEARNING   *Dec. 13th, 2022*

- Learned the basics of AI (different dataset requirements, instance-based and model-based learning, data management, etc.).
- Learned the basic inner workings of ML (linear regression, decision trees, Artificial Neural Networks, etc.).
- Discussed the ethics of ML.

Kotlin and Jetpack: For modern and efficient Android apps
Polytechnic University of Milan

8 HOURS COURSE HELD BY <u>LUCIANO BARESI</u>, PROFESSOR AT <u>POLYTECHNIC UNIVERSITY OF MILAN</u>   *Nov. 22nd & 25th, 2022*

- Learned the basics of Kotlin and Jetpack Android, the structure of a typical Android app and how to use the official IDE Android Studio.
- Created a simple application.

Beyond The Subject: Conceptual changes induced by artificial intelligence and other natural or artificial sciences
Polytechnic University of Milan

2 HOURS SEMINARY HELD BY GIANLUCA MAGNANI, BA OF PHILOSOPHY AT <u>UNIVERSITY OF MILAN</u>   *Feb. 19th, 2021*

- Discussed the philosophical mutations in the meaning of the word "subject", and many correlated terms such as "rationality" and "free will", caused by the persuasive impac of AI on our means of understanding.