

# Niccolò Puccia

Born in: Ragusa, Italy | Living in: Milan, Italy | 03/10/2002 |  
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## EDUCATION

<b>Politecnico di Milano</b> BSc and MSc in Computer Science Engineering	Sept 2021 – Active
<b>Liceo Classico Umberto I (Ragusa)</b> Classical High School	Sept 2016 – June 2021

## TECHNICAL COMPETENCIES

- **Languages:** C, C++, Python, Java. **Web development:** HTML, CSS, JavaScript, PHP. **HW design:** VHDL, Verilog.
- **Databases management:** MySQL, PostgreSQL. **Data Preprocessing:** Numpy, Pandas, OpenCV.
- **ML libraries:** Scikit-learn, Keras, TensorFlow. **Visualization:** Seaborn, Matplotlib.
- **Collaboration:** Slack, GitHub, Google Colab.

## EXPERIENCE

<b>Rilemo</b> • Optimizing biomedical image synthesis through deep learning integration to enhance diagnostic accuracy for early-stage cerebral strokes.	Nov 2026 – Active
<b>EIT Digital Foundation</b> • As part of the continent's largest open innovation ecosystem I gained business and entrepreneurial competencies, complemented by technical knowledge, enabling the development and implementation of innovative market solutions.	Sept 2025 – Active
<b>Novel, Emerging Computing System Technologies Laboratory</b> • By having access to Polimi's labs I gained experience in both research and education by mastering scientific writing, tackling challenges in hackathons and broadening my experience in areas such as public speaking and critical thinking.	Sept 2024 – Active

## PROJECTS

### Sense\_Pedal\_Board

- Developed a wireless wearable device that captures musicians' foot gestures, enabling seamless changes to the sound of their instruments while playing.
- Tackled the challenge of hosting a complex ML model on a resource-constrained Arduino microcontroller.
- Presented project results on the Casa Sanremo Invest stage during the Festival di Sanremo 2025.

### ATale

- Developed a mobile application that leverages facial and object recognition to help Alzheimer's patients strengthen connections to memories at risk of fading away.
- Led a team made of students from various backgrounds, harmonizing their skills to fully realize the project's multidisciplinary potential.

### SICID logs

- Conducted a study on the impact of data mining and deep learning on judicial efficiency, focusing on case disposition times, by analyzing log consistency within SICID, the IT platform used for managing civil litigation cases in Italy.

## INTERNATIONAL EXPERIENCES AND LANGUAGES

<b>KTH Royal Institute of Technology</b> Data science double degree student in Stockholm, Sweden.	TO BE (Sept 2026-Sept 2027)
<b>Prirodoslovna Gimnazija Rudera Boškovića</b> Erasmus+ student in Osijek, Croatia. Explored ICT tools in traditional and distance learning.	Jan 2018 – Mar 2018

### Languages

Italian: native, English: Cambridge Certificate of Advanced English (C1).

## VOLUNTEERING

- **Avis blood donor:** Streamlined access to blood donation initiatives for the entire Polimi community, doubling participation through the development of a scalable web platform capable of handling high volumes of concurrent reservations.
- **Scout:** Rover at AGESCI Ragusa 2.

## SPORT

- Politecnico di Milano volleyball team's libero. Amateur climber and passionate hiker!