

# Gabriele Lo Cascio

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## Education

### Master Degree in Computer Engineering - Artificial Intelligence

Palermo, Italy

UNIVERSITÀ DEGLI STUDI DI PALERMO

September 2025 – Expected July 2027

- Relevant coursework: Big Data, Artificial Intelligence, Computer Vision, Natural Language Processing, Blockchain

### Bachelor Degree in Innovation Engineering - 110/110 cum laude

Palermo, Italy

UNIVERSITÀ DEGLI STUDI DI PALERMO

September 2022 – July 2025

- Relevant coursework: Machine Learning, Operating Systems, Algorithms, Statistical Analysis, Database Systems, Internet

## Work Experience

### Apex Corse (Formula SAE)

Palermo, Italy

NETWORK & EMBEDDED ENGINEER

November 2023 - Present

- Designing and developing a datalogger based on ESP32 with secure MQTT communication and SD data storage
- Implementing a reliable telemetry system with secure remote access and robust fault/crash handling
- Integrating the platform with Docker and Grafana for real-time data processing and visualization. Repository available [here](#)

## Projects

### Speaker

Sant'Agata di Militello, Italy

DEVFEST MEDITERRANEAN 2025 - GDG NEBRODI

December 2025

- Held a talk titled "The Illusion of control: managing the unpredictability of LLMs". Event home page.
- Discussed real-world risks of hallucination and presented architectural patterns for reliable AI integration.

### Iperconnessi Podcast

Palermo

OPEN RADIO

April 2024 - Present

- Published 20+ episodes with growing audience engagement
- Engaged listeners by discussing practical AI applications tailored to student needs
- Collaborated and interviewed with tech leaders to explore cutting-edge AI use cases. Listen [here](#)

### Teaching Assistant & Tutor

Palermo, Italy

VIVERE INGEGNERIA – STUDENT ORGANIZATION

April 2024 – Present

- Taught and mentored over 700 students across multiple study groups organized by Vivere Ingegneria
- Delivered hands-on sessions and lectures in Python programming, Java, C, Internet fundamentals, Algorithms, Calculus and Physics
- Created custom exercises and provided individual guidance to reinforce technical and mathematical understanding

### Qiskit Fall Fest Organizer

Palermo, Italy

UNIVERSITÀ DEGLI STUDI DI PALERMO

November 2023

- Organized and facilitated Qiskit Fall Fest, a global quantum computing event supported by IBM Quantum
- Coordinated a presentation for 40+ students. Site [here](#)

## Awards

### Hack4Future Sicily - Second Place

Palermo, Italy

HACKATHON ON CLIMATE CHANGE (60+ PARTICIPANTS)

May 2025

- Analyzed SIAS hourly rainfall data (2002-2023) to study regional disparities, droughts and flash floods
- Developed a machine learning model to project rainfall trends up to 2050. Repository available [here](#)

### Alpine Climate Data Challenge for TELT - Second Place

Palermo, Italy

OPEN DATA GLOBAL COMPETITION (160+ PARTICIPANTS)

February 2025

- Developed a custom climate model to predict environmental impacts in the Susa and Maurienne Valley through 2050
- Created comprehensive datasets combining European climate data (1980-2024) aligned with scientific literature
- Engineered algorithms considering elevation, time trends and regional disparities. Repository available [here](#)

## Skills

**Programming** Python, Java, C, R, SQL, Go

**Full-stack** Spring Boot, FastAPI, JS, HTML, CSS

**Data Sci. / ML** NumPy, Pandas, Scikit-learn

**Tools** GitHub, Linux, Docker

**Big Data** Spark, Hadoop, MongoDB, Neo4J

**Languages** Italian (Native), English (B1)