

# Giovanni Spadaro

*Data Science master student*

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## Education

Oct 2022 -  
Present

### MSc in Data Science

University of Catania, Catania, IT

Areas of study: Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Statistics, Data Analytics.

Sep 2018 – Oct  
2022

### BSc in Computer Engineering

University of Catania, Catania, IT

Thesis: *Predictive algorithms' application in medical diagnosis*

Advisor: Prof. Maurizio Palesi

Final grade: 110/110. Areas of study: Computer Science, Machine Learning, Signal Processing, Electronics, Automation.

 [Thesis Repository](#)

## Academic Research Experience

Feb - May 2023

### University of Catania, Catania, IT

#### *Research assistant*

Supervisors: Prof. Francesco Beritelli, Ing. Michele Russo

Study and implementation of SOTA GAN based architectures for anomaly detection in industrial multivariate time-series datasets. Training and evaluation of such models in order to provide a baseline aimed at predictive maintenance and early machineries fault detection. Technologies: GANs, LSTMs, PyTorch, Scikit-learn.

## Industrial Experience

Jun - Jul 2024

### Silk Shells Consulting, Remote

#### *Data Scientist*

Designed and implemented a multiclass classification system to evaluate candidate profiles, leveraging advanced feature engineering across both structured datasets and unstructured text sources. Built an interactive Gradio web application to demonstrate the system's prototype and support rapid model validation and overall feedbacks.

Deployed a scalable, production-grade inference infrastructure on AWS, ensuring reliable model serving and smooth integration with existing business workflows.  
Technologies and Services: AWS (mainly SageMaker, Lambda), Google Cloud, PostgreSQL, Pandas, Scikit-learn, XGBoost, OpenAI APIs, HuggingFace Spaces, Git.

## Teaching Experience

Sep 2022 -  
Present

**Superprof**, Remote - Catania, IT

*Private Professor*

Private lessons of Mathematics, Physics, Computer Science, Electrotechnics, Machine Learning, Natural Language Processing and Computer Vision for MSc, BSc and high school students. Make students grow academically and get them excited about scientific subjects.

## Volunteering

Nov 2024 -  
Present

**UNICT FSC**, Catania, IT

*Automotive software engineer*

I'm part of the Low Voltage division of the Catania team taking that should take part in the Formula SAE competition. My role is to manage the workflow of the Low Voltage division and guide the R&D of the car's telemetry system based on the IEEE 802.3cg-2019 (CANbus like) protocol.

## Courses, Hackathons, Certificates and others

Nov 2024

**University of Catania, IBM**, Catania, IT

*Qiskit Fall Fest Catania 2024*

Series of seminars about Basics of Quantum Mechanics, Quantum Computing and Qiskit framework. Solving 3 sets of challenges using Qiskit.

 [Certificate](#)  [Repository](#)

Oct - Dec 2023

**University of Catania**, Catania, IT

*How to build and use a Big Data Platform on the AWS Cloud*

Understand the basics of cloud computing and modern data architectures and learn about the main AWS technologies for creating and managing Data Storage, Data Processing and Data Analysis steps.

 [Certificate](#)

Apr - Jul 2023

**Wylab**, Remote - Chiavari, IT

*Volley Data Analyst*

Match analysis, opposition scouting e talent scouting from Volleyball scout datasets.

 [Certificate](#)  [Register](#)

Jan - May 2023

**University of Catania, Samsung Italy, Catania, IT**

*Samsung Innovation Campus*

Series of lessons about Machine Learning, Deep Learning, IoT and Cyber Security from UNICT professors and Samsung experts. Development of an innovative group project: Hexagarden, an intelligent home wall garden.

 [Certificate](#)  [Project pitch](#)

Mar 2023

**Opinno, Catania, IT**

*Cloud Practitioner Essentials*

Introduction to the AWS platform.

 [Certificate](#)

May 2019

**Var Group, Riccione, IT**

*MasterTech Hackathon 2019*

Solve a business problem related to the supermarket checkout queue forecast in 32 hours using Machine Learning techniques.

Mar 2018

**Ofqual, Catania, IT**

*Cambridge First Certificate B2*

 [Certificate](#)

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