




# Carlo Rosso

## Computer Science Student

 danesinoo  carlorosso02@gmail.com  Carlo Rosso





## About me

As a Computer Science student specializing in machine learning and software development, I am driven by curiosity and a commitment to advancing technological innovation. I've worked on projects that push the boundaries of machine learning, aiming for positive societal impact. Continuously exploring new technologies, I strive to stay at the forefront of the field. I embrace challenges not only as opportunities for growth but also as a way to keep myself engaged and entertained, viewing life as a continuous journey of learning and enjoyment.

## Professional Experience





### Machine Learning Intern @University of Padua

 07/2024 - 08/2024  Padua, Italy

- Conducted research on **sentiment analysis** using machine learning models.
- **Implemented and compared** machine learning algorithms (Kernel Methods, RNN, BERT)





### Front Office Assistant @University of Padua

 08/2023 - 11/2023  Padua, Italy

- Responsibilities included **data processing support**, **front office tasks**, and **archiving**.
- 200h collaboration with **Studenti Career Office**.
- Selected by merit for a **part-time studenti collaboration**.



### Exchange Student @Rødskilde Gymnasium

 08/2019 - 05/2020  Padua, Italy

- I spent a year in Denmark as an exchange student.
- Focused on **Mathematics**, **Physics**, and **Chemistry**.
- The year of the COVID-19 pandemic.






### Mechanical Worker @TPA Srl

 06/2019 - 07/2019  Motta di Livenza, Italy

- **Fabricated** and **assembled** automated machines, by cutting, shaping and preparing metal parts according to project specifications.

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## Education





**Master of Science in Computer Science @University of Copenhagen**

 09/2024 - ongoing  Copenhagen, Denmark

- I am focusing on **Machine Learning**, and I also like **Advanced Programming**.



**Bachelor of Science in Computer Science @University of Padua**



 09/2021 - 09/2024  Padua, Italy

- Thesis: "Comparison of Kernel Methods and Large Language Models in Sentiment Analysis."
- Final Grade: 106/110
- GPA: 3.5

## Projects



**Easy Meal @Software Engineer, University of Padua**

 2023 - 2024  Padua, Italy

- **Web application** designed to streamline restaurant reservations and order management for both customers and restaurateurs.
- Collaborated in a team of developers (6 students), following the **Model-View-Controller (MVC)** architectural pattern.
- Implemented **backend** using **Node.js** and **Nest.js**, managing restaurant data, orders, and user authentication.
- Implemented **frontend** using **Angular**, ensuring a responsive and user-friendly interface, with the same backend's design pattern: the **dependency-injection**.
- Employed **PostgreSQL** as the database and utilized **Drizzle ORM** for efficient interaction with the database and for experimenting with the new technology.
- Deployed the application using **Docker**, creating a containerized environment for easy development and deployment.
- Evaluation: 25/30






**Music vs Robot @Object-Oriented Programming, University of Padua**

 2023  Padua, Italy

- Designed and developed a **tower-defense-style game** inspired by *Plants vs Zombies* using **C++14** and the **Qt framework**.
- **Clear separation of concerns** with distinct layers for the game's logic (model) and graphical interface (view) to enhance maintainability and scalability.
- Applied key **object-oriented principles** such as encapsulation, polymorphism, and modularity to create an elaborate class hierarchy
- Achieved an evaluation of 3/3 **with honors**

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## Skills

### Machine Learning

TensorFlow PyTorch Scikit-learn Pandas Numpy HuggingFace

### Programming

Functional Programming Object-Oriented Programming Algorithms

Data Structures Database Web Development Git

### Programming Languages

Python Haskell Rust C++ C TypeScript JavaScript PHP

Golang SQL Html Typst LaTeX Lua Java Matlab

### Languages

English (fluent) Italian (native) Danish (Basics or less)

## Interests

### Sports

Judo Sailing Skiing Climbing

### Hobbies

Reading Blogging 3D Modeling Music Curiosity