CARLO ROSSO

🌐 Italian 📅 01/11/2002 📍 Copenhagen, DK

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Software Skills

Machine Learning: Torch, Scikit-learn, NLP, AlphaFold, NumPy, HuggingFace, Pandas Polars, Weights & Biases, NLTK

Languages: Python, Rust, Bash, Haskell, C/C++, Java, TypeScript, JavaScript, Golang, SQL, Lua, Matlab, PHP, HTML, CSS, LaTex, Typst

Programming: Functional Programming, Algorithms, Git, UV, NeoVim, tmux, DataSpell, undotree, Jupyter, Alacritty, Drizzle, Angular, Docker, Node.js, Nest.js, Django, Tailwind

Spoken Languages

Italian Native
English Fluent (**IELTS 7.5**)
Danish Learning
Latin Reading

Interests

Sports: Judo, Sailing, Skiing
Hobbies: Open Source, Reading, 3D Modeling, Journaling, Technology

About me

Hi! I'm Carlo: a Computer Science master student. I am passionate about Artificial Intelligence, Machine Learning and Denmark. I seek to apply ML techniques to solve real-world problems.

Professional Experience

Machine Learning Intern

UNIVERSITY OF PADUA

Padua (PD), Italy
07/2024 - 08/2024

- Performed **sentiment analysis** on SST-5 dataset to examine whether syntax conveys meaning.
- Achieved **55.2%** accuracy using tree-kernel methods with syntactic data.
- Improved accuracy to **57.3%** with **LLMs** (RoBERTa) w/o syntactic information.

Software Engineer link

WEAV

Padua (PD), Italy
07/2022 - 08/2023

- Social media to discover and advertise events, pubs, and coffees.
- Engineered a scalable python backend with **Django** in **Docker**.

Education

Master of Science in Computer Science

UNIVERSITY OF COPENHAGEN

Copenhagen, Denmark
09/2024 - ongoing

- Focusing in Machine Learning, and Integrative Structural Biology

Bachelor of Science in Computer Science

UNIVERSITY OF PADUA

Padua, Italy
09/2021 - 09/2024

- Artificial Intelligence, Software Engineering, Operating Systems.
- Final Grade: **106/110**.

Exchange Student

RØDKILDE GYMNASIUM

Vejle, Denmark
08/2019 - 05/2020

Projects

Easy Meal link

- Web application to streamline restaurant reservations and orders.
- Implemented the backend in **Node.js** with **Nest.js** and **Drizzle**.
- Implemented the **frontend** in **Angular**: levereging on the dependency injection.
- Evaluation: **25/30**.

Music vs Robot link

- Developed tower-defense-style game inspired by *Plants vs Zombies*.
- Implemented in **C++14** with **Qt framework**, automated with **Makefile**.
- Evaluation: **3/3 with honors**.

Somebody's Blog! link

- Automated blog to convert Markdown to HTML with **Rust** and **GitHub Actions**.
- **Open source** project for personal notes, project management, and journaling.
- Because keeping a daily logbook, while working is incredibly helpful.