

Olmo Ceriotti

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Education

University Sapienza

Master of Science in Artificial Intelligence and Robotics

From September 2024

Rome, Italy

- **Relevant Coursework:** Machine Learning, Artificial Intelligence (Python & Prolog), Robot Programming (ROS & C++)

University of Milano-Bicocca

Bachelor of Science in Computer Science (GPA: 4.00 / 4.00)

From September 2021 to July 2024

Milan, Italy

- Graduated with honors
- **Relevant Coursework:** Programming Languages (Prolog & Lisp), Distributed Systems (Java), Object Oriented Programming (Java)

AGH University

Erasmus Program (GPA: 4.00 / 4.00)

From September 2023 to February 2024

Krakow, Poland

- **Relevant Coursework:** Embedded Artificial Intelligence (Python), Functional Programming Languages (Scala), Cryptography (Python)

Projects

Bachelor Thesis: Heterogenous GNNs for Action Prediction on EASG | Python, PyTorch, PyTorch Geometric, WandB

- Parsed a novel dataset and applied augmentation to it.
- Created a wide range of heterogenous GNN models to perform action prediction on the dataset.
- Trained and tested the models.

dAlet | LangChain, Groq, LLama3.1, MySQL, Nest.js

- Developed a functional application for creating meal plans considering medicines, diseases and allergies.
- Performed prompt engineering on LLama 3.1-70B model in order to produce structured JSON output.
- Created a custom database to enrich the prompt with additional information regarding medicines and diseases.

PySteg | Python, OpenCV, NumPy, ZBar

- Implemented efficient and effective steganography methods on images. Researched various algorithms using academic sources.
- Developed a steganography method dedicated to QR Codes using their error correction properties.
- Employed a wide variety of dedicated libraries and resources.

Technical Skills

Languages: Python, Java, Javascript, C++, Scala, Lisp, Prolog, HTML, CSS, SQL, Bash, Latex

Technologies: PyTorch, PyTorch Geometric, TensorFlow, Flask, Express.js, jQuery, Bootstrap, Node.js, MySQL, Git, SCSS, Processing

Concepts: Artificial Intelligence, Operating System, Data Structures and Algorithms, Graph Theory, Machine Learning, Neural Networks, API, Functional Programming, Computer Vision, Web Protocols, Linux

Achievements

- 3rd ranked speaker in Italian Debate Championship 2020
- Graduated high school with top marks