

Luca Malagutti



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WORK EXPERIENCE

TEACHING ASSISTANT

Rycolab, ETH Zurich

📅 March 2023 - August 2023 📍 Zurich, CH

Will be part of the TA team of the Large Language Models course, preparing lecture materials on the Transformer architecture and its variants.

DATA SCIENCE INTERN

SEI Novus

📅 March 2022 - August 2022 📍 Zurich, CH

Built from scratch and deployed a complete pipeline for automatic data extraction from various financial documents. Leveraged and improved state-of-the-art NLP models for Document Information Extraction.

TEACHING ASSISTANT

Rycolab, ETH Zurich

📅 Sep 2021/2022 - Feb 2022/2023 📍 Zurich, CH

TA of the Natural Language Processing course under Professor Ryan Cotterell for two consecutive academic years. Held discussion sections, prepared lecture notes, assignments, and exam questions, marked assignments and exams.

LAB MEMBER

NECSTLab, Polytechnic University of Milan

📅 November 2018 - July 2020 📍 Milan, IT

Developed mobile applications for biometric data logging collaborating with PhD candidates, under the supervision of Professor Marco Santambrogio.

EDUCATION

MASTER'S DEGREE IN COMPUTER SCIENCE

ETH Zurich

📅 September 2020 - ongoing 📍 Zurich, CH

Major: Machine Intelligence

Minor: Data Management

Selected courses include: Natural Language Processing, Advanced Machine Learning, Computational Intelligence Laboratory, and Machine Perception

BACHELOR'S DEGREE IN COMPUTER ENG.

Polytechnic University of Milan

📅 September 2017 - July 2020 📍 Milan, IT

Final overall grade: 110/110

PROJECTS

DIVERGENCES FOR LANGUAGE GENERATION

Master's Thesis - Rycolab, ETH Zurich

📅 October 2022 - ongoing 📍 Zurich, CH

Currently writing my Master's Thesis on the use of divergence functions as alternative fine-tuning losses for Natural Language Generation under the supervision of Clara Meister and professor Ryan Cotterell.

AUTOMATIC TEXTBOOK SUMMARIZATION

Semester Project - Mrinmaya's Lab, ETH Zurich

📅 September 2021 - January 2022 📍 Zurich, CH

Created and analyzed a novel data set for educational NLP. Developed NLP models for summarization on textbooks under the supervision of Professor Mrinmaya Sachan.

DEEP-MON

Semester Project - Polytechnic University of Milan

📅 February 2020 - June 2020 📍 Milan, IT

Improved Deep-Mon, an eBPF-based monitoring tool to measure container resource usage, by implementing its memory, disk and I/O monitoring capabilities and creating a new CLI.

TECHNICAL SKILLS

PROFICIENT IN:

- Python
- Pytorch
- Java
- Docker

EXPERIENCED WITH:

- SQL
- C/C++
- R
- Flutter

LANGUAGE SKILLS

- **Italian:** mother tongue
- **English:** full proficiency (C2 level)
- **German:** basic proficiency (B1 level)

HONORS

BEST FRESHMEN SCHOLARSHIP

Polytechnic University of Milan

📅 September 2018 📍 Milan, IT

Awarded merit-based full scholarship granted to the best-performing freshmen of the 2017-2018 academic year.