

MATTEO CIRCA

Data Scientist

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WORK EXPERIENCE

Ericsson

Trainee, Thesis worker | Machine Learning

Onsite, Stockholm, Sweden

Jan 2024 – Present

- Research on Data-Efficient Machine Learning techniques, such as Transfer Learning, in the AI team counting 50+ people.

Eurecat - Centre Tecnològic de Catalunya

Research Intern (Thesis) within the Data Science and Big Data Analytics department

Remote, Barcelona, Spain

Jan 2022 – Jul 2022

Python LIWC Jupyter Notebook Pandas

- Performed data analysis over 500 thousand stories, 10 million users, and **20 million** user interactions within the Archive of Our Own (AO3) fanfiction repository. [Code | Dissertation]
- Collaborated in a team of 6 people, including 3 researchers.
- Contributed to the broader project Möbius funded under the European Commission's Horizon 2020 program.

EDUCATION

KTH Royal Institute of Technology

MSc in ICT Innovation (EIT Digital) - Data Science

Stockholm, Sweden

Aug 2023 - Jul 2024

4.00/4.00 Expected GPA - 66 Tot. credits

- 3rd place among 74 teams in the Qualification Phase of the 2023 Huawei Sweden Hackathon. Ran the final with 9 other teams.
- **Main courses:** Data-Intensive Computing, Data Mining, Scalable Machine Learning and Deep Learning (SMLDL).

Aalto University

MSc in ICT Innovation (EIT Digital) - Data Science

Helsinki, Finland

Aug 2022 - Jul 2024

4.00/4.00 GPA - 60 Tot. credits

- **1st** place in the individual round-robin tournament of the Artificial Intelligence course. Implemented an agent with a heuristic to play the Konquest game against **250** students competing.
- Coordinated 3 group projects of 5/6 students.
- Volunteered in the Info group of Slush, the world's largest startup event, to serve 13,000 visitors.
- **Main courses:** Deep Learning, Machine Learning: Supervised Methods, Methods of Data Mining, Artificial Intelligence, Statistical Natural Language Processing (NLP), Complex Networks, Startup Experience.

University of Trento

BSc in Computer Science

Trento, Italy

Jul 2022

3.85/4.00 GPA - 188 Tot. credits

- **Main courses:** Algorithms and data structures, Introduction to Machine Learning, Operative Systems, Computer Architectures, Software engineering 1 & 2, Networks, Databases, Computational logic, Calculus 1, Linear Algebra, Probability, Human Computer Interaction, Embedded Software, Softwarized and Virtualized mobile networks.

PROJECTS

CourseMatch: Web Platform for Course Recommendation at Aalto University

Full Stack App & API Development & NLP

Python AWS Docker Flask Node.js React TypeScript MUI

🌐 SNLP-project-team2023

- Deployed a Web Platform that uses a Sentence-BERT language model to match user queries with 1,000+ course descriptions through the Aalto API. Awarded as the best project of the NLP course. [Code | Report | Demo | Video Demo]
- Enabled **1,000+** students to identify their ideal course.

BYOSC: Chatbot for Course Assistance at KTH

Full Stack App & MLOps & LLM

Python Hugging Face LangChain Streamlit Hopsworks RAG Fine-tuning

🌐 BYOSC-Build-Your-Own-Scalable-Chatbots

- Deployed a Web App featuring a fine-tuned chatbot and RAG to assist students in university courses. Awarded as an outstanding project of the SMLDL course, with a 50 percent user adoption rate. [Code | Report | Demo]
- Eased exam preparation for 49 students.
- Presented the project to the PyData community in Stockholm, which has more than 1,200 members.

ACHIEVEMENTS

Winner of the EIT Digital Summer School 2023 - Artificial Intelligence for Personalized Prevention

Tallinn, Estonia

Jun 2023 - Jul 2023