

Edoardo Debenedetti

MSc STUDENT IN CS @ EPFL | RESEARCH INTERN @ CYD CAMPUS

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Education

EPFL - Federal Institute of Technology Lausanne

MSc IN COMPUTER SCIENCE

Lausanne, Switzerland

Sep. 2019 - Feb. 2022 (Expected)

- GPA 5.41/6, focus on **Machine Learning** ∩ **Security** ∩ **Privacy**.
- Worked on a **research** project about **deepfakes** counteraction via influence functions at **Prof. Troncoso's** SPRING Lab.

PoliTo - Turin Polytechnic University

BSc IN COMPUTER ENGINEERING

Turin, Italy

Sep. 2016 - Jul. 2019

- GPA 28.4/30, graduation mark 110/110, **top 9%**.
- **Exchange year at 同济大学** (Tongji University), in Shanghai (China), during my entire sophomore year, supported by a **full scholarship** granted to the top 31% applicants.

Navy Military College "F. Morosini"

HIGH SCHOOL DIPLOMA

Venice, Italy

Sep. 2013 - Jul. 2016

- Selected to lead sophomores as **prefect** during my final year.
- **Military training** on Italian Navy's Ships and at Italian Navy's Marine Corps.

Experience

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RESEARCH INTERN

Lausanne, Switzerland

Aug. 2020 - Feb. 2021

- Cyber-Defence Campus is as the Swiss equivalent of DARPA, a **research center of the Armed Forces** for the cyber-defence capability development. I am being hosted and supervised by Dr. Humbert.
- Conducting research about efficient ways to have **machine learning** models **unlearn** training points efficiently, for **privacy** purposes. Tools: **PyTorch**, **PyTorch Lightning**, **Comet ML**, and **Python**.

Reply

SOFTWARE ENGINEERING INTERN

Turin, Italy

Nov. 2018 - Feb. 2019

- Reply is one of the top IT consulting groups in Italy, with revenue worth €1B+ in 2018.
- Developed a **chatbot** that answers questions about GDPR law, using **TypeScript**, **Redis**, **MongoDB**, **IBM Watson Assistant**, and **Docker**.
- Worked on **RPA**, using **Python**. One of the bots I developed **decreased a task duration by 88%**, without requiring human intervention in it.

Projects

Database Systems Project

Graded 6/6

- Implementation of **Jaccard similarity based LSH** for approximate K-NNs.
- Implementation of a **MapReduce-friendly theta-join** according to the 1-Bucket-Theta algorithm with additional Reduce optimizations.
- Stack: **Scala** and **Spark**.

NeurIPS 2019 Reproducibility Report

Graded 6/6

- Reproducibility report of a NeurIPS 2019 paper about **black-box adversarial attacks against ML models**, submitted to the NeurIPS 2019 Reproducibility Challenge.
- With our re-implementation we **reduced by 76% the median attack time** wrt the paper. Stack: **Python**, **PyTorch**, **LaTeX**.

Extra

JEToP (PoliTo's Junior Enterprise)

INTERNATIONAL MANAGER

Turin, Italy

Oct. 2018 - Jun. 2019

- **Executive board** member responsible for external relations of the Junior Enterprise. Signed **8 new partnerships**.
- Past positions (since Oct. 2016): Fundraising & Partnership Assistant, IT Consultant.

LeadTheFuture

MENTEE

Sept. 2019 - Current

- Selected to be part of the **leading mentorship organization for STEM students in Italy** - Acceptance rate < 20%.
- Held a **mentoring session** about MSc admissions at EPFL.

Languages

• **English:** Fluent, TOEFL iBT 108/120, C1.

• **Italian:** Native speaker.

• **French:** Intermediate.