RICCARDO CADEI

Mathematical Engineer

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EDUCATION

M.Sc. in Data Science

École polytechnique fédérale de Lausanne

📅 Sept 2020 – June 2022 📍 Lausanne, Switzerland

Relevant courses: Machine Learning, Applied Data Analysis, Artificial Neural Networks, Deep Learning, Systems for Data Science.
Research Projects:
- Detecting available area for photovoltaic panels installation in Switzerland through Deep Convolutional Neural Networks (at LESO-PB Lab, supervised by Professor Roberto Castello).
- Towards Multi Agent Causal Representation Learning (at Visual Intelligence for Transportation Lab, supervised by Yuejiang Liu).

Teaching Assistant:
Introduction to Machine Learning for Bioengineers (BIO-322)

B.Sc. in Mathematical Engineer　　　　　Vote: 110/110

Politecnico di Milano

📅 Sept 2017 – July 2020 📍 Milan, Italy

Associations: PoliMI Data Scientists, Associazione Ingegneri Matematici
Thesis: Optimization models for the planning of activities in an Oncology Day-Hospital.

EXPERIENCE

Research Assistant

Intelligent Global Health Lab - EPFL

📅 Jun 2021 – Sep 2021 📍 Lausanne, Switzerland

Devoloping a mobile app using Deep Learning for (non-invasive) upper body posture detection.

Machine Learning Engineer

L.O.L. Consultants

📅 Dec 2020 – Feb 2021 📍 [remote] Melbourne, Australia

Using DCNNs for segmentation of aerial images.

PROJECTS

PUBLICATIONS

👥 Conference Proceedings
- [accepted] Castello, R., Walch, A., Attias, R., Cadei, R., Jiang, S., & Scartezzini, J.-L. (2021). Quantification of the available area for rooftop photovoltaic installation from overhead imagery using convolutional neural networks., CISBAT.

AWARDS

Machine Learning

Generali Data Challenge		**2021**
Churn Classification Datahon: Best model and code out of 280 part.		
Oracle GraphML Contest		**2019**
1st pl. in the Kaggle final challenge of GraphML course at Politecnico di Milano in partnership with Oracle Labs (Zurich).		
ML4 Networking Contest		**2019**
1st pl. in the Kaggle final challenge of ML4 Networking course at Politecnico di Milano.		

Mathematics

International competition for mathematical and logical games	**2018**
5th national place (ITA), class L2.	
Grand Prix of Applied Mathematics	
5th national pl. out of 7500+ stud.	2017
6th national pl. out of 7500+ stud.	2016

CODING

ML: `Python` , `R` , DL: `PyTorch` , `Tensorflow`
Math: `MATLAB` , `Python` , `R` , `AMPL`
Big Data: `Spark` , `SQL` , `HDFS` , `AWS`
Programming: `Scala` , `C`
App and Web: `HTML` , `CSS` , `Andorid Studio`

LANGUAGES

Italian	C2	(mother tongue)
English	C1	
French	A1	

REFEREES

Prof. Roberto Castello　　　　　**EPFL**
@ roberto.castello@epfl.ch

OTHER INTERESTS

- **Marathon Runner** for Atletica Paratico Marathon regional champion U23.　　2018
- **Trainer** of the athletic team of Politecnico di Milano (50+ athletes).　　2018-2020
- Long distance **hiker** and **cycle tourist**.

- **Volunteer** in Bucharest, Caritas 2 weeks of child caring.　　2018
- **Volunteer** in Ecuador, Operazione Mato Grosso 7 weeks of social services.　　2012