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 Ph.D. 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