

# Davide Meloni

## Curriculum Vitae

☎ (+39) 3925034517  
✉ d.meloni314@gmail.com

### Overview

Highly motivated data scientist with strong mathematical background and dedicated interest in Machine Learning, Computer Vision and RL techniques.

### Experience

2019-2020 **Reserach Intern**, *AIRLab, Politecnico di Milano, Italy*.

Worked on my MSc thesis on Meta-RL (Supervisor: Prof. Marcello Restelli).

2018-2019 **Machine Learning Engineer**, *Wallabies srl, Milan, Italy*.

Worked on a deep learning model to estimate similarity among football players and improved the previous method of rating player performances.

### Education

2018-2020 **MSc - Data Science**, *University of Milan-Bicocca, Milan, Italy* (GPA 29.1/30).

2014-2017 **BSc - Physics**, *University of Milan, Milan, Italy* (Final mark 106/110).

2009-2014 **High School - Science path**, *Milan, Italy*.

### Achievements and Awards

2019-Now **LeadTheFuture Mentee**| Among the few Italian students selected to be mentees for a leading mentorship non-profit organization for top-performing students in STEM.

2018 **Tronchetti-Provera Foundation**| Scholarship for outstanding students.

2018 **IISole24Ore**| Article about our work on music data.

### Projects

July 2019 **CAOS - Continuous Angle Orientation System**| Developed a ConvNet, leveraging the PyTorch framework, able to deal with angle periodicity in order to estimate the right face orientation with an error of few degrees.

June 2019 **Text Summarization of email corpora**| Deployed an unsupervised algorithm, using Glove embeddings, able to summarize the content of more than 18k emails.

May 2019 **RNN and Arima forecasting of energy consumption**| Built recurrent and autoregressive models, using the R programming language, to forecast the energy consumption in a building.

March 2019 **Recognizing language from raw audio**| Trained a 1D-CNN with TensorFlow to recognize the spoken language in several audio clips.

July 2018 **A NLP analysis of Shakespeare works**| Exploit the word-embedding representation of the Shakespeare's masterpieces and characters to perform a semantic analysis of his works.

June 2018 **Q-Learning for games**| Solved different OpenAI-gym environments using DQNs.

Dec 2017 **SpotiWhy: A document-oriented database for musical analysis**| Gathered a huge music database, using MongoDB and Python, joining data from several sources and organized in very different structures.

### Languages

Italian Native

English Fluent