Andrea Cognolato

Data science and Engineering Student at Politecnico di Torino

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EDUCATION

Politecnico di Torino – M.Eng. Data Science and Engineering

October 2020 - July 2022 (Expected)

Politecnico di Torino –B.Eng. Computer Engineering

October 2017 - July 2020

Grade: 110/110 (Top 1% in my class). One of Italy's top 5 universities.

WORK EXPERIENCE

Politecnico di Torino, Torino – Machine Learning Research Stage

October 2019 - June 2020

Worked with a PhD student (Eliana Pastor) under the supervision of professor Elena Baralis on a novel framework (LACE) for analyzing the predictions and the interpretability of black box classifiers.

As a part of my responsibilities I had to read articles in the field of **Explainable Artificial Intelligence**, develop and optimize **scientific Python** code, and build a web demo to showcase the framework's capabilities.

Remote – Freelance Software Developer

September 2017 - Now

I have designed, developed and deployed web applications, cryptocurrency daemons, and backend services. The technologies I have used include: **C++**, **Javascript** (**Node.js** and **React**), **Python**, **PostgreSQL**, and **Redis**.

Starting in February 2020, I have begun working as the lead developer for an eCommerce using **Haskell**, **Purescript, Typescript, and AWS Lambda**.

OTHER EXPERIENCES

Citadel Summer Invitational Datathon

The aim of this competition was to analyze data from the past three Olympics, discover interesting patterns, and build quantitative economic models. Our team quantified the effect of the Olympics on the Growth Boroughs using a technique called Synthetic Control.

BOSCH Mobility Hackathon

I have participated in a Hackathon with the aim of finding a solution for traffic, parking, multimodality, and accessibility issues for the city of Milan. We analyzed the data and built a proof of concept of our idea: a car pooling service for children who attend the same school.

Blogging

I have written a series of posts on my blog which reached the front page of *Hacker News* and *reddit/r/programming*, and were read by more than 10,000 people.

AWARDS

Young Talents Program (Politecnico di Torino) **–September 2017 – 2020** Excellence program dedicated to the top 3% of the students of each academic year.

1st place – Informatics Olympiad – Galileo Ferraris 2016 Because of this victory I qualified for the national selections of the olympiad.

LANGUAGES

Italian, Native speaker

English, IELTS 8.0 (December 2019)

French, DELF A2, 87.5/100

Open Source contributions

(Full list available on GitHub)

I have contributed to many open source projects in my free time such as Surrogates.jl and Druid.

I also have many personal projects in computer graphics, compilers, and automatic differentiation.