

Lorenzo Palloni

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I am an M.Sc. student of Computer Science (Data Science specialization) at the University of Florence, where I previously obtained a bachelor's degree in Statistics. The academic and work challenges I have faced so far have helped me develop a strong passion for Statistics, Computer Science and Mathematics, especially with a focus on Machine Learning applications. Currently, I have finished all my exams, and I am looking for an opportunity in the field of Machine Learning that allows me to grow both professionally and personally.

Education

- *Bachelor's degree, Statistics*, 106/110
 - University of Florence (2015 - 2018)
 - Thesis: "[A new Python package for Feedforward Neural Networks](#)"
- *Master's degree, Computer Science* (expected 110/110)
 - University of Florence (2018 - *)

Work experience

- **Data Scientist** at *Swiss Reinsurance Company Ltd.*, May 2020 – Sept 2021
 - My primary responsibility was the [Swiss Re ADAS risk score](#): given a set of car insurance policies, I developed a score based on the relationship between the relevant safety systems installed in a client's car and the standard objectives of a car insurance company (i.e., claim frequency, severity and paid losses). I implemented automatic end-to-end pipelines, that could handle from the raw data to the final product using especially Python, PyTorch, R, PySpark, SQL, Git. Main models used in the analysis were Generalized Linear Model with Neural Networks as backbone, and Gradient Boosting Decision Trees.
 - Other responsibilities:
 - steering position in a partnership project with ETH Zurich;
 - deputy position in an European project on ADAS (Advanced Driving Assistant System).
 - Comments:
 - The first 6 months I worked as an intern, then I received an offer for a full-time, permanent position that lasts for 1 year.
 - I left the company because I could not grow technically enough with respect to my interests, despite an amazing, high-level environment.

Skills

- **Python**, C++, CUDA, Latex, Vim, Zsh, R, PySpark

Awards

- **1st place (500 €) - Miriade DataGame**
 - Predictive challenge organized by Miriade and BeeViva on 15 March 2018.

Languages

- Italian (Native proficiency)
- English (Full Professional working proficiency)

Selected projects

- [goa \(Global Optimization Animations\)](#) - [Python, numpy, matplotlib]
 - [Entity Embedding of Categorical Variables implementation](#) - [Python, TensorFlow 2.0]
 - [Convolution operation for images filtering](#) - [CUDA/C++]
 - [pytorch-acai-wae](#) - [Python, PyTorch]
 - [wl-graph-kernels](#) - [Python]
 - [quicknn](#) - [Python, TensorFlow 1.11]
 - [yasa](#) - [C++, Docker]
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