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 safety systems installed in a client's car and the standard objectives of an insurance company (i.e., claim frequency, severity and paid losses). I implemented an automatic end-to-end pipeline capable of addressing customizable analysis from raw-similar-structured data to a final product. This was done using especially Python, PyTorch, R, PySpark, SQL and Git among other technologies. The main models that were considered during the analysis were GLMs (Generalized Linear Models) with Neural Networks as backbone, and GBDT (Gradient Boosting Decision Trees).
  - Other responsibilities:
    - Steering position in a partnership project with ETH Zurich.
    - Deputy position in a European project on ADAS (Advanced Driving Assistant System).
  - Relevant comments:
    - I worked as an intern for the first 6 months, then I received an offer for a full-time, permanent position that lasted 1 years, until I left.
    - I resigned 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]
