Piermattia Schoch

https://piermattiaschoch.github.io

Email : piermattiaschoch95tech@gmail.com

Mobile : +39-3519820588

EXPERIENCE

- **Data Scientist & Shiny App Developer @Riskwave, Dublin**

  Sept. 2020 - Present - Full Time Remote

  - **Project**: As the Riskwave's Principal Data Scientist, I am responsible for engineering and implementing a new wave of advanced analytical tools specifically tailored for risk management. My daily work consits in building high-impact data products using open technologies that span across different subfields of data science.
  - **Tech skills**: PostgreSQL - Python - R - Shiny Apps - Docker - API - AWS - Heroku
  - **Soft skills**: Work closely with business stakeholders and experts in different domains - Support long term strategic corporate data science initiatives - Lead knowledge management practice to enable team to document and share best practices.

- **Financial Data Scientist - Internship @Philips, Amsterdam**

  Oct. 2019 - Mar. 2020

  - **Project**: As a member of the Advanced Reporting & Analytics team, I led a product portfolio optimization project for one Personal Health business. Specifically, I implemented an end-to-end data science project following all the steps of ASUM-DM methodology. The final output consisted in recommending the optimal portfolio composition at SKU level, with the aim of increasing the overall margin of the category. Simulations were based on commercialy available data (GfK) and web collected data.
  - **Tech skills**: SQL - R - Python - Web scraping (scrapy/scrapy-splash) - Git
  - **Soft skills**: Business sense - Effective communication - Reporting and Powerpoint

EDUCATION

- **Athens University of Economic and Business** — Athens, Greece

  Master of Science in Business Analytics; Erasmus+ Programme — *Jan. 2019 – Jul. 2019*

- **Catholic University of the Sacred Heart** — Milan, Italy

  Master of Science in Data Analytics; Final Grade: 110L/110 — *Sep. 2017 – Apr. 2020*

- **Alma Mater Studiorum - University of Bologna** — Rimini, Italy

  Bachelor in Finance, Insurance and Business; Final Grade: 108/110 — *Sep. 2013 – Dec. 2016*

PROGRAMMING SKILLS

- **Languages**: R, Python   **Technologies**: SQL - PostgreSQL - Shiny Apps - Docker - API - Heroku - AWS

SOME PROJECTS

- **Churn Analysis**: This project aims to exploit the problem of churn of customers from a telecommunications company. The first task was to perform an inferential analysis, in order to understand which variables were most related to churn. Then the focus has been placed on prediction accuracy, with an in depth analysis on the variability of the results. Finally, I performed a cluster analysis for the Marketing department.

- **False alarms detection methods in earthquake early warning systems**: I worked, as a member of a team, in a real-world application where the task was to develop a false alarm detection method for a smartphone-based crowdsourcing network. Traditional statistics and spatial statistic have been used to deal with this problem.

- **Analysis of ads from the used motorcycle market**: The dataset consist of 30K classified ads (Json files) from the largest market for used cars and spare parts in Greece. I read, cleaned, added the data to MongoDB, throught R, and then i perfomed queries and analysis in order to understand the market and to identify ads considered as best deals. After that, I helped the client to measure the effectiveness of the email solicitation strategy, by applying Redis Bitmaps to a small dataset of 19.999 users.

- **Blog comment prediction using Spark**: Prediction of the number of comments that a blog post receives based on features of the post. I applied ML models available through the Dataframe-based API in *spark.ml* package