

Rating Score for Credimi - University laboratory for UniMi

Credimi's Challenge hosted on Open Data Playground

Description

Our main goal is to help SME in their growth. Unfortunately not all enterprises are eligible for a Loan, some will pay off, others won't. It's in our best interest to be able to predict which company is which. Therefore your main goal is to build a model that answers the question: "Is this company going to thrive or fail?".

We provide you with two sets of data:

- Train Set: a collection of data, multiple features, and the target variable
- Test Set: a collection of the same features, but no target variable

Both these datasets are pretty much ready to use.

This doesn't mean that you do not need to explore them, but that you do not need to perform a massive data cleaning. Nevertheless, you are free (and encouraged) to perform a proper feature selection - again, it's up to you.

About the company

Have you ever read that "Small businesses are the backbone of the economy"? Every day, Credimi fuels hundreds of entrepreneurs' growth by making their business finance easier, nicer and faster than any available alternative. In 2 years and a half, their proprietary technology has allowed them to analyze more than 50.000 companies and to lend more than half a EUR billion to hundreds of customers, making Credimi the largest digital business lender in Continental Europe.

Financial intermediary authorized and supervised by the Bank of Italy, Credimi offers simple and fast digital financing solutions designed for the needs of Italian companies.

Founded with the mission of simplifying access to credit for businesses, Credimi is today the largest digital lender for businesses in Europe, with over 1.6 billion euros in loans disbursed to Italian companies.

- Credimi Subito is the first digital loan for sole proprietorships
- Credimi Futuro is the financing for corporations and partnerships
- Credimi Commerce is a service that finds both the web specialists and the economic resources to carry out the digital project of companies.

Duration

The challenge will be open from the 2nd to the 18th of May, for two and a half weeks. Credimi will be available for assistance to players on the **credimi-laboratory-unimi** slack channel ID C03BMPRKG9W in this workspace

(https://join.slack.com/t/opendataplayground/shared_invite/zt-cxp6rc1v-tBoNjil~kHEouO8jYG8QCw) for a total of 20h over the duration of the challenge.

Eligible students

This competition is a laboratory for UniMi students to test their skills in the field of Data Science.

Rules of the challenge

You are completely free to use whichever model you prefer or perform at best, based on the metric you find more suitable. The output of the problem is intended as a Classification, but you are absolutely free (and encouraged) to apply your own threshold to a Regression model and compare, in order to develop your personal strategy.

The only constraint is to develop your solution in Python 3, which will allow us to read and understand your code.

We will ask you to deliver 2 things (plus an optional one):

- a .csv file containing the prediction of your model on the Test Set
- the python code you used to produce the .csv above (Notebook or script)
- (optional) a brief pdf document (maximum 1 page) if you feel to explain your approach and/or your process

No extra points will be awarded for the optional document, but it is fair to say that it serves us right to evaluate your performance in understanding your way of thinking and the decision you took.

Evaluation of the challenge

In order to measure how well your model performs, we will compute how much money you earned (as in “loans given to companies that thrive”) and how much money you lost (as in “loans given to companies that failed”).

Prize of the challenge

The chance for an internship in Credimi, to work alongside the Data Team, in a truly dynamic environment, where you can understand the added value that ML models mean for our business.

Participants of the laboratory can be selected by Credimi for a curricular internship position in their offices. You will also be evaluated on your code, your strategy, and your general approach to the problem. Ideas matter more than coding skills!

How to apply

You can go join the challenge named «Rating Score for Credimi - University laboratory for UniMi» on Open Data Playground here:

<https://opendataplayground.com/challenge/ada12f63-e767-4e74-b7dd-8c5b8dd772b7>

To compete in the challenge, you have to create a profile on Open Data Playground using your student email address (name.surname@studenti.unimi.it) - please note that if you use any different email addresses (i.e. personal emails), you will not be able to take part in the competition.