

**Abre:** terça-feira, 7 de novembro de 2023 às 10:00

**Data limite:** sexta-feira, 24 de novembro de 2023 às 18:00

## Introduction

This project consists of the development of a data mining (DM) case study. The description of the application is provided in a separate page that can be found in moodle.

The project consists of a predictive data mining task, which is defined in the case study description. The development of the project should be guided by a suitable methodology. The choice of methodology is left to the students, based on what was presented in class.

## Rules

- The project will be developed by groups of 3 students.
- There will be a single delivery, to be made according to the instructions below and on the date indicated in the plan. Additionally, the plan contains dates when other results are expected, in order to help students monitor the progress of their work.

## Kaggle instructions

- You will find links to access the Kaggle competition in moodle.
- You can pick any name you like for the kaggle groups, but it should be prefixed with the name of the moodle group in which you registered.
- The format of the submission file is CSV is described in Kaggle, together with further detail about the process.
- Each group will be allowed to make a single submission.
- The evaluation metric is indicated in the description of the case study.

## Grading

The grade is given by the following formula:  $(70\% SA + 10\% CS + 20\% P) * IF$

- SA=submitted assignment
- CS=competition score
- P=presentation
- IF=individual factor

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The competition score is based on the results on the predictive data mining task, as follows

- a maximum grade will be assigned to the group with the best result
- a minimum grade will be assigned to the group with the worst result
- the grades of the remaining groups will be given according to a linear progression in the interval between the minimum and maximum grades

## Individual factor

The individual factor is a value between 0 and 1 that each group should assign to the contribution of each student. The value will be considered but the final decision concerning the individual grade is up to the lecturer(s). The values should be included in the cover page of the report. If the groups cannot reach a consensus, then you should contact the lecturer(s).

## Monitoring the progress of your work

As the groups interact with the lecturer, the corresponding grid will be updated and a preliminary grade will be available. The purpose of this grade is for the groups to monitor their progress and the effort that is still necessary to invest, as well as to understand the strengths and limitations of the current work. However, the final grid and, thus, the final grade, will only be available after the final submission of the project.

# Presentation/report guidelines

The presentation will serve also as the report. On one hand this means that it must be prepared for a 15 min. talk so it must focus on the main issues of the project. On the other hand, it should also summarize all the work that was carried out, which means that additional information that cannot be presented orally can be included as annexes to the presentation.

Suggested organization:

- cover page, including IF of all the students in the group
- domain description (1 short slide, as everyone is working on the same domain)
- exploratory data analysis: very short summary, focusing on the main findings (2 slides)
- for the predictive data mining problem
  - problem definition (1 slide)
  - data preparation: very short summary, focusing on the main operations (2 slide)
  - experimental setup (1 slide)
  - results (2 slide)
- conclusions, limitations and future work (1 slide)
- annexes
- TOTAL: max 40 slides

## Submission instructions

- The presentation as well as any files that are required to reproduce the results (data, code, etc), will be submitted in moodle.

## Estado do trabalho

Este trabalho requer a submissão em grupos. Como não está associado a nenhum grupo, não é possível fazer uma submissão. ✕  
Por favor, contacte o professor para ser adicionado a um grupo.


Grupo	Não está associado a nenhum grupo
Número da tentativa	Tentativa 1
Estado da submissão	Nenhuma submissão efetuada
Estado da avaliação	Sem avaliação
Tempo restante	Tempo restante: 66 dias 1 hora
Última modificação	-

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