Project in Introduction to Machine Learning

To be solved in Groups of ideally 2 Members

Submit by 15th January, 2021, 23h59 by email to jaime.cardoso@fe.up.pt

You need to deliver:
-**project proposal**: 1 page pdf, due by Nov 9 (10%)
-**send the code of your work**: zip file, due by Jan 15 (15%)
-**write a Report**: 6 pages most in double column, pdf format, due by Jan 15 (50%)
-**do an oral presentation**, 20 min most, date to be defined (after Jan 15) (25%)

Description: in here you have the opportunity to explore the application of machine learning techniques in the context of a real-world data set. Potential project ideas and data are presented in the annex.

Project Proposal:
You must turn in a brief project proposal (1-page maximum). Read the list of available data sets and potential project ideas. We suggest projects on data that has already been collected, so try to work on existing data sets (exceptions are allowed). Note that even though you can use data sets you have used before, you cannot use as class projects something that you started doing prior to the class.

Project proposal format: Proposals should be one page maximum. Include the following information:
Project title
Data set
Project idea. This should be approximately two paragraphs.
Software you will need to write.
Papers to read. Include 1-3 relevant papers. You will probably want to read at least one of them before submitting your proposal
Team.

Annex
Potential project ideas:
  1. Frame the project within your PhD or Master thesis.
  2. Participate in (or use data from) international competitions
      *Kaggle Competitions (https://www.kaggle.com/competitions)
      *DrivenData (https://www.drivendata.org/competitions/)
      * http://grand-challenge.org/All_Challenges/
      * http://www.kdnuggets.com/competitions/index.html
      * http://tunedit.org/challenges/
  3. Propose your own idea.