PROJECT ANNOUNCEMENT

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Project requirements

- Projects may be conducted individually or in groups
- Each group has up to 2 members
- Turn in a one-page proposal on May 28, 2021
- Each group should prepare presentation and report
- Presentation is scheduled after final exam
- Read the following blog for some challenging problems : https://www.analyticsvidhya.com/blog/2015/06/start-journey-kaggle/

Project requirements

- Bonus points to be given if solving a real problem related to their business if permitted
- You will get points ONLY if you **do some experiments by yourself**
- Project is **NOT** paper review
  - You can consult existing paper, but **can not** take content (experimental results) from existing papers and pretend that is your results
- Keep in mind of **academic integrity**

Project requirements

- Need presentation during final
  - About **15 min presentation + 5 min Q/A**
  - Clearly explain the contribution of each member (and also in the report)
- Need to turn in a final report after presentation
  - Clearly explain **which part of the program is your own work, and which part is from Internet**
  - You will not be credited if you do not provide such information
  - Need to turn in source code along with your report

Project requirements

- Source code
  - Must be in **plain text (ASCII) file**, which can be edited via word or notepad (or other text editor)
  - Screen shots can be used in report, but you still need to turn in source codes in text files (to check similarity)
- I might use **turnitin** tool to check your report and your source codes
  - I will not give bonus points if I detect any **cheating** on your project or report (or not providing source codes for comparison)

Text file

- The following is NOT a text file for source codes because I cannot edit the program

Code 1: This code is used to create a embedding vector.

```
# -*- coding: utf-8 -*-
"""

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# -*- coding: utf-8 -*-
import collections
import math
import os
import numpy as np
import random
from six.moves import xrange
```

Project report

- Report should be compact, preferably below 5 pages (2-column, single space, excluding source code listing)
- Report should include
  - Title and names of team members (title page)
  - Introduction
  - Problem statement
  - Details of used techniques & data processing
  - Further technical details if needed (with proper section title)
  - Experiments & results
  - Conclusions & **list of contribution of each project member**
  - References

Sample projects

- Use various ML methods to rate red wine
- Predicting Sales Trend Through LTSM
- Wildfires Causes Predicting in United States of America Using Random forests
- Sales Prediction – Soft Drinks based on Random Forest and LSTM