

Project-3

Due Date- 04/30

Points- 200

Description:

1. Assumption 1: In project-2 you have scraped the headings/titles from some website and you have a text file which contains all the headings/titles. I am also assuming all the headings are in separate lines and no special characters are there. If these assumptions are not met please modify the code.
2. Assumption 2: In project-1 you have implemented a local LLM model and the input to the model is a text file and output is a text file which contains only the sentiments of the input texts. E.g. If three input texts (headings) then three sentiments in the output file.
3. In project-3 you have to pass the text file generated in project-2 as an input to project-1. The output will be a text file containing the sentiments of the text. E.g. input file contains:
Today the market jumped 2000 points
Nvidia stocks are having a bullish run after their recent announcement
Trader joe is downsizing its business
The output file should contain
Positive
Positive
Negative
The output file can have three values: positive, negative and neutral.
4. You **may** have to readjust the query to the LLM model.
5. Minimum of 10 headings/titles related to finance should be there in the input file.
6. You should be using the following object oriented concepts:
 - a. Python modules (import methods from different files)
 - b. Class
 - c. Inheritance OR Interface
7. Please combine projects 1 and 2. Refactor the code to meet requirement 6.
8. Create a final Readme for your project. Since project-3 is a combination of two different projects, please rewrite the Readme. Create a final yaml and other dependencies that you use in the project. Create a separate branch for project-3 and push the programs, input, output files and anything else needed for the project in this branch.

Rubric:

1. Able to combine both the projects (1 and 2) and the output is a sentiment file containing sentiments of all the comments in the input text file. - 60 points
2. Able to refactor the code to incorporate object oriented approaches: modularize the code, create classes and use inheritance/interface (please look point-6 above) - 70 points
3. Able to write at least 2 test cases to test the modules and/or classes using pytest - 40 points
4. Able to write a comprehensive README file and yaml and other dependency files - 30 points

The TAs will interview you regarding the project. Zip all the files and upload into Moodle if you want to get graded. If you do not upload into Moodle no grading will be done, it doesn't matter if you appear for the interview. Failure to attend the interview means no points will be awarded.

If you have any questions please ask me during the class time. Thank you.