Lyrical Sentiment and Word Importance Across Genres Rubric

DS 4002 – Spring 2023 – Nathan Patton
Due: To be determined
Submission format: Link to github repository (canvas assignments)

Individual Assignment

General Description: Submit to canvas “Assignments” a link to your case study repository with all the necessary deliverables.

Preparatory Assignments – Previously taught materials, especially case studies.

Why am I doing this? This is your opportunity to use the data science knowledge you have learned in the past to answer an important research question. The tools and materials necessary for accomplishing this task are provided, and it is up to you to make it happen. It is an individual assignment, but you are encouraged to ask questions, research, and consult with your peers. It is also your chance to contribute to the other stakeholders, such as your classmates, friends, and family members, who listen to music. The deliverable you will create is a solution to this case study targeted at these stakeholders.

- Course Learning Objective: logic and problem solving
- Course Learning Objective: creative thinking
- Course Learning Objective: communication of results

What am I going to do? First, read the one-page introduction to the case study, “Hook Document”, to help you get interested and engaged, and frame the deliverable you will produce. Take time to think about how you may address the problem conceptually, which will then lead into the technical details later on. Jot down any ideas you may have for a possible deliverable to help solve the problem, and take a look at the tips for success below if needed. Once you have read the entirety of the introduction and feel that you have ideas of steps that need to be carried out to accomplish the deliverable, begin getting started. Note that the main deliverable of this assignment is a Github repository consisting of a README file, written plan, SRC folder, Data folder, Figures folder, and a MIT License.The specific of each of these components can be seen below.

Tips for success:

- Be bold. Don’t constrain yourself. Go above and beyond to figure out the best solution with the allotted time.
- Don’t overthink the algorithms. This can be done using basic modeling and sentiment analysis.
- Don’t spend too much time on the little details. Focus on the big picture.
- Be creative with the final presentation. Really tie all the information together to make the solution clear and to the point.

- Ask questions and talk to your peers. This is a creative individual assignment, but outside support and ideas may be beneficial.

How will I know I have Succeeded? You will meet expectations on this assignment when you follow the criteria in the rubric below.

Spec Category	Spec Details
Formatting	● Repository - a github repository (submitted via canvas Assignments) ○ Submit a link to the repo for this assignment containing ■ README.md ■ Written Plan ■ SRC Folder ■ Data Folder ■ Figures Folder ■ MIT License
README.md	● Goal: This file serves as an orientation to everyone who comes to your repository, it should enable them to get their bearings. ● Use markdown headers to divide content ● Make an H2 (##) section explaining the contents of the repository ● SRC Section ○ Make an H3 section for the Installation and Building of code ○ Make an H3 section for the Usage of your code ● Data Section ○ Data Dictionary ○ Link to data file ○ General notes about the data ● Figures Section ○ Table of contents describing all figures produced and their key takeaways ● References Section ○ All references should be listed at the end of the Readme.md file (Use IEEE Documentation style (link)) ○ Include any acknowledgements
Written Plan	● Goal: This section lays out the road map for working towards the end deliverables ● A graphic demonstrating the analysis plan ● A paragraph describing each step in the plan ● Include a specific quantifiable goal that you can use as a finish line for your analysis ● No analysis is performed
SRC Folder	● Goal: This folder contains all the source code for your project. ● Include supplemental documentation as necessary, especially if it is too detailed/verbose for the overall readme.

Data Folder	● Goal: This folder contains all of the data for this project ● If your data does not fit in GitHub use a single file explaining the process to obtain the dataset.
Figures Folder	● Goal: This folder contains all of the figures generated by your project ● Include every figure in the README
License	● Goal: This file explains to a visitor the terms under which they may use and cite your repository. ● Select the MIT License

Acknowledgements: Special thanks to Professor Alonzi for providing the outline for this rubric and for a great semester. This structure is pulled direction from Streifer & Palmer (2020).