DS-SPOTIFY Rubric

DS 4002 – Fall 2022 – Samarth Saxena
Due: December 14, 2022
Submission format: Link to GitHub repository (collab assignments) and hard copy (in class)

Individual Assignment

General Description: Submit to collab assignments a link to your case study repository and a hard copy of the wrapped.md file to the head TA in class.

Preparatory Assignments – Class sessions about case study reading. Class sessions about logic and problem solving. Listening to music.

Why am I doing this? We read and produce solutions to case studies to practice thinking like a data scientist. In this example the focus is on applied thinking and the presentation of your results. In this case, it is a current example with ample resources about the actual Spotify Wrapped. You are encouraged to work the case study on your own, then research the topic, and finally create your version of Spotify Wrapped. Tackling the problem first without too much inspiration from the real Spotify Wrapped is a good chance to stretch yourself and then take in more information to locate your strengths and your weaknesses, however, feel free to reference Spotify's version as needed for insight.

- Course Learning Objective: logic and problem solving (nb: placeholder)
- Course Learning Objective: applied thinking (nb: placeholder)
- Course Learning Objective: presentation of thinking (nb: placeholder)

What am I going to do? You will begin by reading the one-page prompt for this case study. In that prompt you will be given a challenge. Take time to reflect on that and make notes. If you have ideas, play with them and come up with thoughts. Then make a plan to produce the main deliverable. That deliverable is a RMarkdown file that represents your version of a Spotify Wrapped. This file should be part of your GitHub repo. As you create your Spotify Wrapped, more materials will be added to the repository. Then you can engage with the supplemental materials and improve your solution. You will pay attention to what ideas you had that were also used by the Spotify in creating their Wrapped. Also pay attention to ideas they had that you did not and reflect on that discrepancy. You will learn from their experience. Then the final part is to reflect on the results of your Spotify wrapped. For example, do the trends you discovered match what you expected them to be? Do the trends make sense when juxtaposing them with today's pop culture? Reflect on questions such as these in a 1-2 paragraph response.

Tips for success:
- Have fun. This case study is supposed to be light-hearted and a learning experience. Lean into that.
- Don't constrain yourself. This is not a problem with right and wrong answers. You will be asked to explain your results, but that does not mean you should ignore creative ideas.
- Take time to think about the prompt before researching the topic. Explore your ideas and select variables that you are interested in. Then do research and compare your ideas with other students in your class.

How will I know I have Succeeded? You will meet expectations on DS-SPOTIFY Case Study when you follow the criteria in the rubric below.

Spec Category	Spec Details

Formatting	• Repository – A new GitHub repository
	    • Create a new GitHub repo for this assignment containing
	        • wrapped.md
	        • LICENSE
	        • Images folder
	        • Code folder

wrapped.md	• Goal: This file is what will be assessed for the assignment. You should plan to print this out and submit it in class • Structure this file in such a way to be easily readable by an individual who has read the prompt • Include a "top" feature, such as top artist or album in playlist • Usage of Spotify-generated variables, such as valence or energy, and an explanation of what they mean and why they are important to listeners • Include your reflection • Include references • markdown format
Reflection	• Goal: Written reflection in English that describes insights you made after completing your own Spotify Wrapped. • Explain whether the results make sense to you • Explain how the Spotify generated variables add to your Spotify Wrapped and what they signify • Reflect on the difficulty of summarizing all the songs in your playlist into a visually appealing file • Write in plain English
Code Folder	• Goal: Include all code that you use to create your wrapped.md file • This folder will contain code files
LICENSE	• Goal: Explain to readers the terms under which they may use and share your work. • The MIT license is the default recommendation
Images folder	• Goal: Include all images you embed in your readme file. • This folder will contain image files

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