Spotify Wrapped: User Data Collection Algorithms

CS 106

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What is Spotify Wrapped?

Wrapped is a feature that Spotify launched in which it uses various algorithms and code to analyze the app's users listening patterns. For instance, some of the features that the 2021 spotify wrapped included were:

- 5 top artists
- 100 most played songs of 2021
- Top 5 genres
- Minutes listened to and how one user compared to other listeners:
- The amount of different artists the user listened to in that year
- Most consecutively repeated song (binge-listen)

How I would plan to find Top 5 artists:

1. Create an object for user and songs
    a. Include the necessary attributes for each object
    b. Under user object:
        i. "Name" and [] of songs played
    c. Under song object:
        i. "Title", duration, "artist", genre, [] of users that played the song
2. Call user object and return the list of songs played by user
3. Find the amount of times each song was played, sort list, and print the 5 highest (top) values of the list
4. Create a function to call the song object and use the artist attribute to find the top 5 artists based on the top 5 songs.

Citations

Learn with Jabe. (2021, May 2). *How to build your own spotify wrapped with Python* [Video]. Youtube. https://www.youtube.com/watch?v=q7XKMTO_8uk&t=516s.

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