Project Proposal

Code

Mark Gallo

Final Project Proposal

Title: “A Collection of The Necessary Data to Compare Concert Ticket Prices Across Online Sellers”

Type of Project: Data (A1)

Links to Data Sources:

Spotify: https://api.spotify.com/v1/playlists (https://api.spotify.com/v1/playlists)

Seat Geek: https://api.seatgeek.com/2/events (https://api.seatgeek.com/2/events)?

Ticket Master: https://app.ticketmaster.com/discovery/v2/events.json (https://app.ticketmaster.com/discovery/v2/events.json)?

Last.FM: http://ws.audioscrobbler.com/2.0/ (http://ws.audioscrobbler.com/2.0/)

1. Significant Hurdles:

> I wish to leverage the Stubhub and Apple Music APIs as well. However to obtain access to Stubhub data requires a user name and password input before being provided access to the data. There are a number of explinations of how to accomplish this using python, but I am having trouble doing this successfully in R. Any insight would be greatly appreciated. In the case of Apple Music, there is a $100 cost associated with getting access to the data. I am working on getting the data for free, as I am friends with an IOS developer. I must make it clear that if the data cannot be aquired for free than Apple Music’s API will not be leveraged for this project, as the cost would be too burdensome.

A Collection of The Necessary Data to Compare Concert Ticket Prices Across Online Sellers

2. Overview

The intent of conducting this data collection is to make it simpler for users to compare ticket prices for upcomming concerts. Functions have been made that allow for a user to search for performers outside of the examples seen in the data set provided below. The intent is to assure that the data collection is done as to inform the user.

3. Data & Methodology

The example seen below leverage Spotify's API to extract data reguarding the artists who have made the top 50 songs in the US, as played on Spotify. Any public playlist can be leveraged which allows for genre analysis to be conducted, as Spotify has a number of genre based playlists. While analysis may not be the most critical element of this project I do believe that useful data extraction allows for analysis to be conducted. One could begin to compare prices across different charts and genres, determine which genre's have the most expensive tickets, determine which seller has the most expensive tickets, which artists are part of a certain genre, etc. One can see that from the data example provided below that the top 5 artists in this example would be classified as Hip-Hop artists.

Artist: The Name of the artist of interest

Next Show: City: The City that the performer will be performing in next

State: US State show will be in

Data & Time: Date and Time of performers next show

Seat Geek Avg Price: Seat Geek avg price for next show

2020 Ticket Master Forcast: Expected average price for performer's 2020 shows

Genre Tags: Music Genre & various tags

	Artist	Next Show: City	State	Data & Time	Seat Geek Avg Price (Next Show)	2020 Ticket Master Forcast: Avg Price	Genre Tags
1	Arizona Zervas	*NA*	*NA*	*NA*	*NA*	*NA*	Hip-Hop, rap, rnb
2	Billie Eilish	Inglewood	CA	2019-12-06T19:30:00	1048	91.25	pop, indie pop, indie, electronic, female vocalists
3	Post Malone	Omaha	NE	2020-02-04T20:00:00	396	283	Hip-Hop, rap, trap, cloud rap, hip hop
4	Travis Scott	*NA*	*NA*	*NA*	*NA*	*NA*	Hip-Hop, rap, hip hop, american, travis scott
5	Juice WRLD	Los Angeles	CA	2019-12-14T03:30:00	806	*NA*	Hip-Hop, rap, cloud rap, emo rap, chicago
6	Selena Gomez	*NA*	*NA*	*NA*	*NA*	*NA*	pop, female vocalists, Disney, pop rock, Selena Gomez
7	Harry Styles	Inglewood	CA	2019-12-13T19:00:00	825	104.5	rock, pop, alternative, pop rock, british
8	Lewis Capaldi	Philadelphia	PA	2019-12-11T19:30:00	181	*NA*	seen live, pop, pop rock, Scottish, indie pop
9	blackbear	*NA*	*NA*	*NA*	*NA*	*NA*	electronic, Hip-Hop, pop, r&b, rnb

Showing 1 to 11 of 50 entries, 7 total columns

Data Example - All Data Seen Above Has Been Extracted From The APIs Listed in ‘Links to Data Sources’