Data Focused Python (C3 Mini 2021) Music Debut Helper

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Nicole Miya Sylvester -nsylvest@andrew.cmu.edu

Nyle Usmani – nusmani@tepper.cmu.edu

Yashvi Thakkar – ypt@andrew.cmu.edu

------ READ ME -----

The packages to be installed are:

1. plotly using the following command-

pip install plotly==4.14.3

2. cufflinks-py using the following command-

conda install -c conda-forge cufflinks-py

3. plotly-orca using the following command-

conda install -c plotly plotly-orca

The demonstration of Music Debut Helper is available on the link below.

https://youtu.be/PEPqqN5Fl3s (Demonstration video)

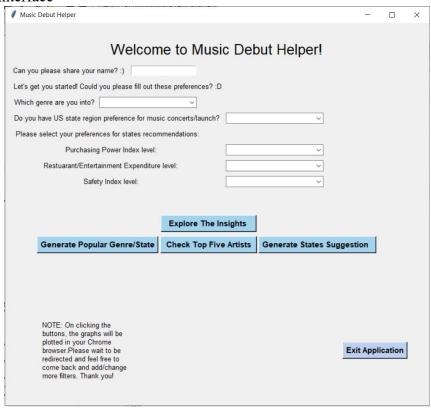
https://drive.google.com/file/d/19jlOCRIds-C-NuuiHrx8ydTGfRHf9O_G/view (Demonstration with Scraping of one remaining dataset -Ticketmaster and prototype model from 5:24 mins in the video)

MusicDebut_final.py is the main file and rest python files are used for scraping data. The details are of the files are given below:

- 1. Music.py Web scraping music data from using Last FM API
- 2.<u>TicketMaster.py</u> Web scraping Ticketmaster website to fetch concert per state data using its API
- 3. numbeoData1.py Scraping using Beautiful soup to fetch purchasing power related data of different US states
- 4. <u>numbeoData2.py</u> Scraping using Beautiful soup to fetch crime index related data of different US states.

On running the MusicDebut_final.py file in IDLE/Spyder following are the snippets of outputs being generated.

1. The home interface



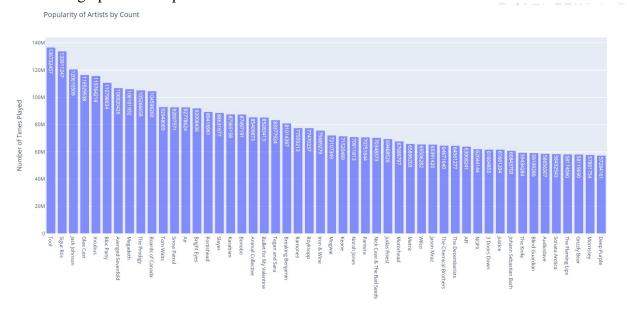
2. After typing in details and selecting genre



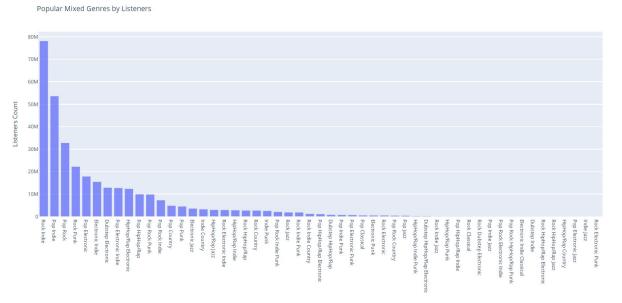
3. After selecting the filters – US state region, Purchasing power index, Safety Index, Restaurant/Entertainment Index

Welcome to Music Debut Helper! Can you please share your name? :) Vashvi Let's get you started! Could you please fill out these preferences? :D Which genre are you into? Electronic Do you have US state region preference for music concerts/launch? SouthEast Please select your preferences for states recommendations: Purchasing Power Index level: Restuarant/Entertainment Expenditure level: Safety Index level: Moderate Explore The Insights	
Let's get you started! Could you please fill out these preferences? :D Which genre are you into? Electronic Do you have US state region preference for music concerts/launch? SouthEast Please select your preferences for states recommendations: Purchasing Power Index level: Restuarant/Entertainment Expenditure level: Safety Index level: Moderate	
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Purchasing Power Index level: Restuarant/Entertainment Expenditure level: Safety Index level: Moderate	
Restuarant/Entertainment Expenditure level: Safety Index level: Moderate	
Safety Index level: Moderate	
Explore The Insights	
Generate Popular Genre/State Check Top Five Artists Generate States Suggestion	
Your competition will be: The recommended states to debut from a	are:
1. The Chemical Brothers 2. The Prodigy 3. Air 4. Portishead with the current 5. Röyksopp selected filters were found. Please reset them. NOTE: On clicking the buttons, the graphs will be plotted in your Chrome browser. Please wait to be redirected and feel free to come back and add/change more filters. Thank youl	

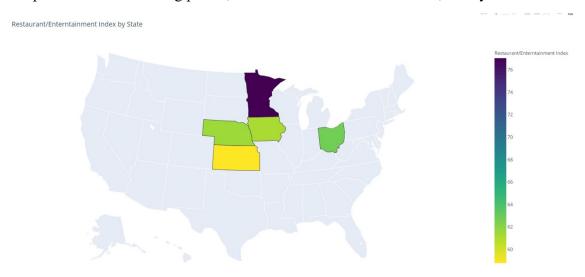
4. On clicking 'Explore some Insights' – you will be redirected to your chrome browser where the graphs will be plotted

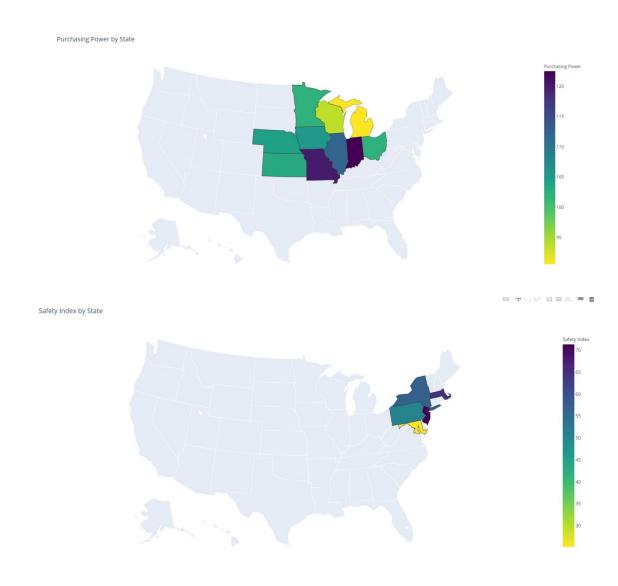




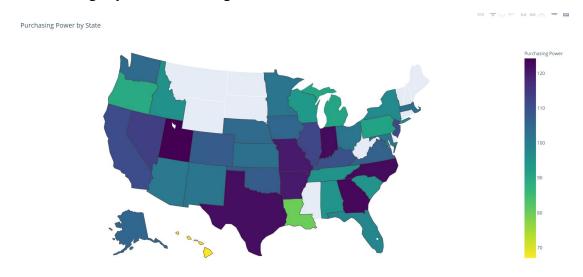


5. On clicking 'Generate State recommendation' – three graphs will be generated on three different parameters: Purchasing power, Restaurant/Entertainment Index, Safety Index.

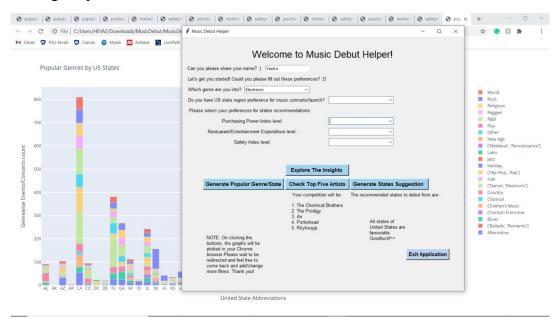




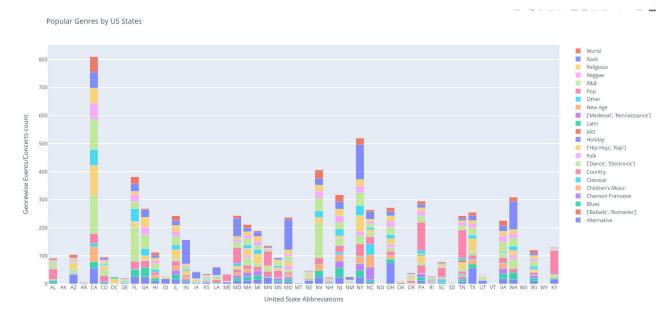
6. On not selecting any filters or US regions.



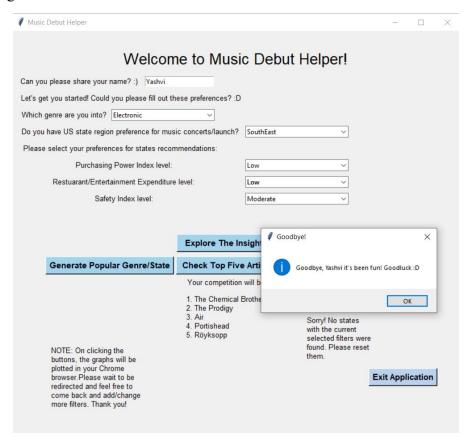
7. On clicking 'Top five artists'



8. On clicking 'Generate Popular/Genre by State'



9. On clicking 'Exit' button



** All the buttons will redirect you to the Chrome browser for plotting the graphs. Internet connection isn't required. The graphs can be regenerated on adding/changing new filters.