Data Science Project Two Guide

My Project Contains 4 Main Coding Articles:

- **DS2.py**
  - **Contains the flask app code and the methods I used to create a chatbot using Spotify's API Developer Dashboard**
- **etl.py**
  - **This is my ETL pipeline. I used Spotify's api developer dashboard to collect Spotify popularity ratings and put them in a CSV that will be used by my chatbot to answer questions regarding popularity scores**
- **Artist_popularity_scores.csv**
  - **This is the CSV file generated from my etl.py code. It contains two entries with 553 data points. This contains the most famous artists and their Spotify popularity scores**
- bot.py
  - This contains the code for my Discord bot I made for extra credit. Integrated with my code from DS2.py but must be in the same folder in order to work
- logic.py
  - This just contains the functions from DS2.py and makes them importable for bot.py

Extra Credit**

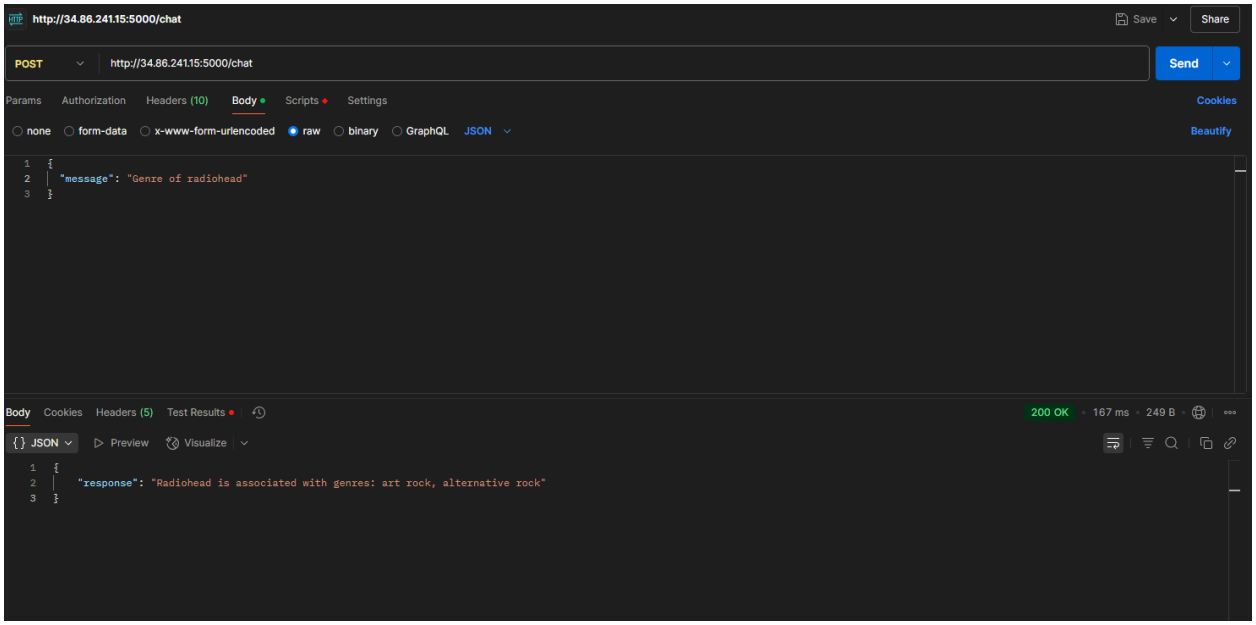
How to run my code:

1) Create Virtual Enviroment-python3 -m venv venv
1) Add a SSH line using Google Cloud username and VM external IP- ssh <username>@<external-IP>
2) Mine is jacksonshaiz@34.86.241.15- the one I will be using for the project
3) Activate it- source venv/bin/activate
4) Upload etl.py and DS2.py
5) Run etl.py by typing "python etl.py" into the VM script

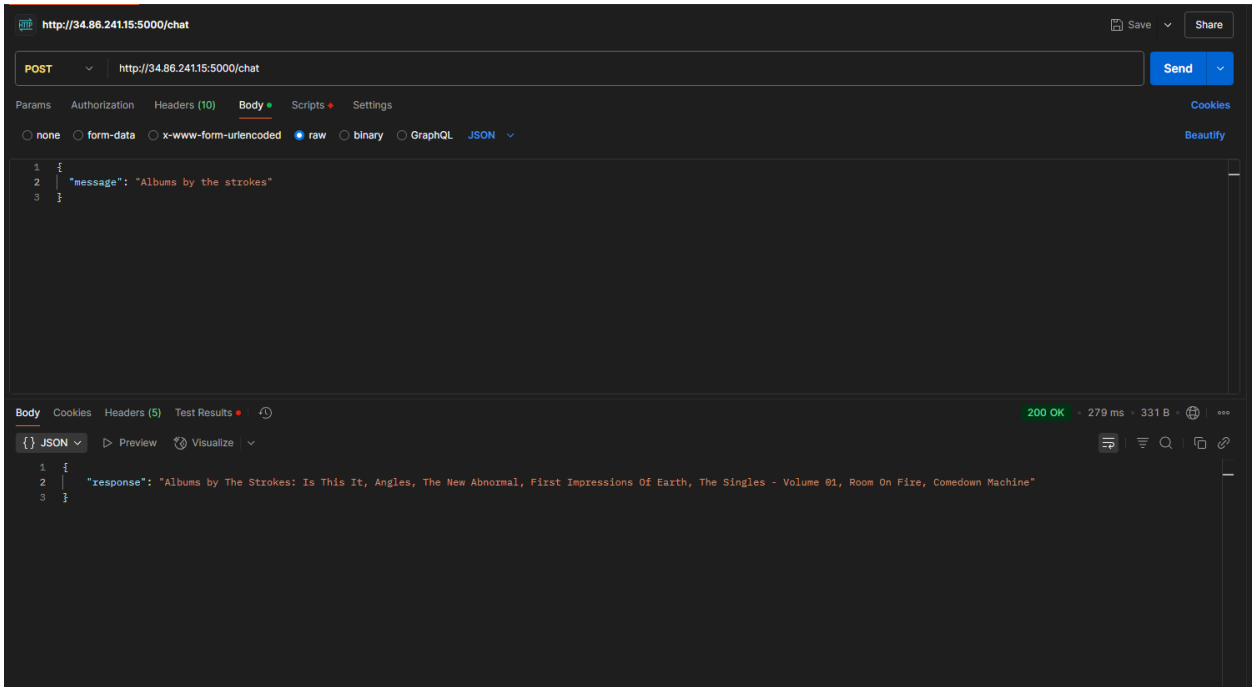
6) This will generate my artist_popularity_score.csv into the gm instance, no need to upload it yourself!
7) Run DS2.py by typing "pyhton DS2.PY into the VM script"
8) Visit: http://34.86.241.15:5000/ which will welcome you to my spotify chatbot assistant!
9) To begin chatting (I used postman for this step), type http://34.86.241.15:5000/chat into the postman link
10) My code has 5 main questions that can be answered about spotify artists!
    a) Track Info
    b) Popularity Score
    c) Top songs by an artist
    d) Albums by an artist
    e) Genre of an artist!

Here are pictures of messages you can send!

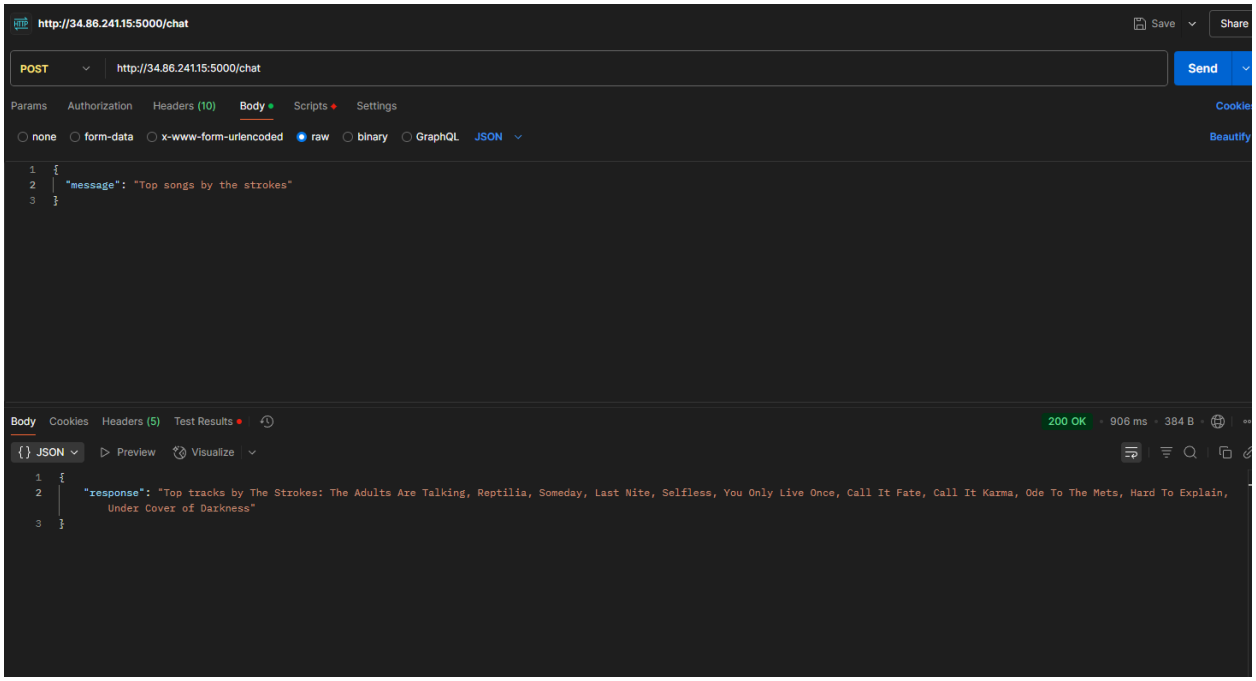
Genre



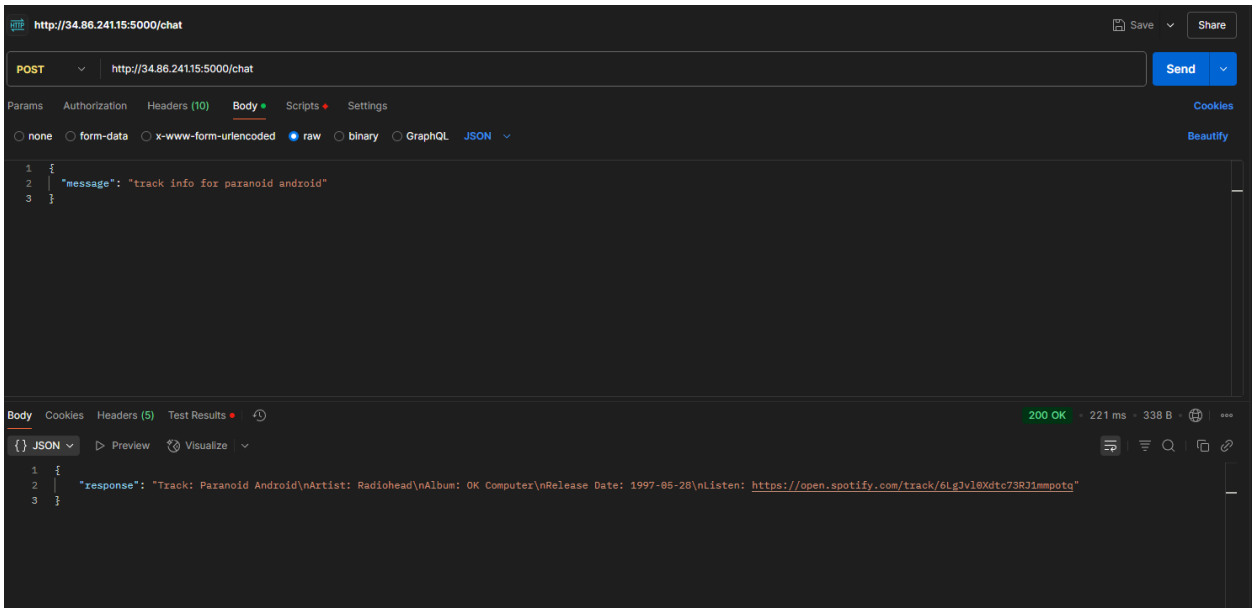
Album



Top songs:



Track Info



Popularity Score