### 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 usign Spotify's API Developer Dashboard
- etl.py
  - This is my ETL pipeline. I used Spotify's api developer dashboard to collect <u>Spotify popularity ratings</u> 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 <u>DS2.py</u> but must be in the same folder in order to work

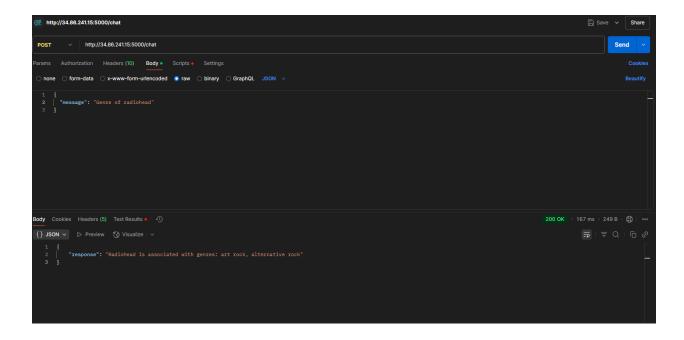
### How to run my code:

- 1) Create Virtual Environment-python3 -m venv venv
- 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: <a href="http://34.86.241.15:5000/">http://34.86.241.15:5000/</a> which will welcome you to my spotify chatbot assistant!

- 9) To begin chatting (I used postman for this step), type <a href="http://34.86.241.15:5000">http://34.86.241.15:5000</a>/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!

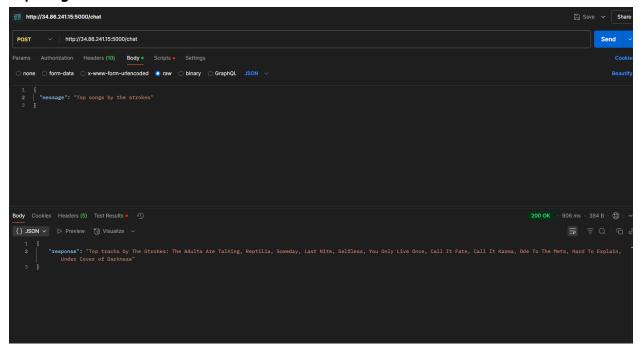
Here are pictures of messages you can send!

#### Genre

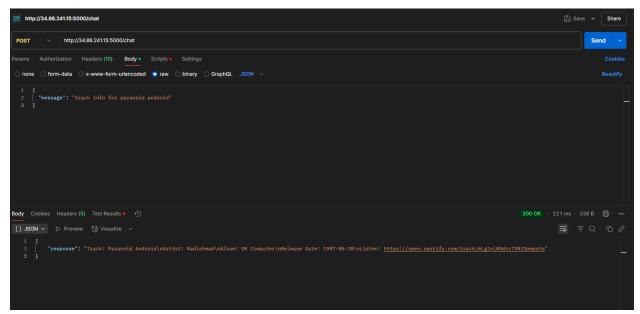


### **Album**

## Top songs:



## Track Info



# Popularity Score

