Data Exploration

This is my exploration through the dataframes seeing what I can do with the information and how I should clean and use the available information. For more information about the datasets and their contained contents or the logistic regression model, see the README on my github, github.com/devin-lepur, for more information.

```
In []: import pandas as pd
    import numpy as np
    from matplotlib import pyplot as plt
    import seaborn as sns
    from sklearn.model_selection import train_test_split
    from sklearn.linear_model import LogisticRegression
    from sklearn.metrics import mean_squared_error, mean_absolute_error
    from sklearn import metrics
    from sklearn.preprocessing import MinMaxScaler
    from collections import defaultdict
```

```
In [ ]: from google.colab import drive
drive.mount('/content/drive')
```

Drive already mounted at /content/drive; to attempt to forcibly remount, cal l drive.mount("/content/drive", force_remount=True).

In []: liked.info()
disliked.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 529 entries, 0 to 528
Data columns (total 24 columns):

Data	COIUMNIS (COCAI 24	COTUMNIS).	
#	Column	Non-Null Count	Dtype
0	Spotify ID	487 non-null	object
1	Artist IDs	487 non-null	object
2	Track Name	529 non-null	object
3	Album Name	518 non-null	object
4	Artist Name(s)	518 non-null	object
5	Release Date	487 non-null	object
6	Duration (ms)	529 non-null	int64
7	Popularity	529 non-null	int64
8	Added By	529 non-null	object
9	Added At	529 non-null	object
10	Genres	486 non-null	object
11	Danceability	487 non-null	float64
12	Energy	487 non-null	float64
13	Key	487 non-null	float64
14	Loudness	487 non-null	float64
15	Mode	487 non-null	float64
16	Speechiness	487 non-null	float64
17	Acousticness	487 non-null	float64
18	Instrumentalness	487 non-null	float64
19	Liveness	487 non-null	float64
20	Valence	487 non-null	float64
21	Tempo	487 non-null	float64
22	Time Signature	487 non-null	float64
23	isLiked	529 non-null	bool
dtvne	es: bool(1), floate	54(12), int64(2)	. object(G

dtypes: bool(1), float64(12), int64(2), object(9)

memory usage: 95.7+ KB

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 374 entries, 0 to 373
Data columns (total 24 columns):

columns (total 24	columns):	
Column	Non-Null Count	Dtype
Spotify ID	374 non-null	object
Artist IDs	374 non-null	object
Track Name	374 non-null	object
Album Name	374 non-null	object
Artist Name(s)	374 non-null	object
Release Date	374 non-null	object
Duration (ms)	374 non-null	int64
Popularity	374 non-null	int64
Added By	374 non-null	object
Added At	374 non-null	object
Genres	372 non-null	object
Danceability	374 non-null	float64
Energy	374 non-null	float64
Key	374 non-null	int64
Loudness	374 non-null	float64
Mode	374 non-null	int64
Speechiness	374 non-null	float64
Acousticness	374 non-null	float64
Instrumentalness	374 non-null	float64
Liveness	374 non-null	float64
Valence	374 non-null	float64
	Column Spotify ID Artist IDs Track Name Album Name Artist Name(s) Release Date Duration (ms) Popularity Added By Added At Genres Danceability Energy Key Loudness Mode Speechiness Acousticness Instrumentalness Liveness	Column Spotify ID Artist IDs Track Name Album Name Artist Name(s) Release Date Duration (ms) Popularity Added By Added At Genres Jary non-null Anded At Genres Jary non-null Danceability The street of the street o

```
21 Tempo 374 non-null float64
22 Time Signature 374 non-null int64
23 isLiked 374 non-null bool
dtypes: bool(1), float64(9), int64(5), object(9)
memory usage: 67.7+ KB
```

Liked has a signinificant number of missing values which is expected due to the existance of local files.

Disliked surpringly has some although it only appears to be two.

In []: #Demonstration of how the DataFrames Look
print(liked)

```
Spotify ID
0
     3oHkMCVJyOcjg5FhfLc2Rq
1
     51EC3I1nQXpec4gDk0mQyP
2
     7AvprzMsRJpybaalckaT8c
3
     3L0IKstjUgDFVQAbQIRZRv
4
     7aAEJfIzJUUSRXQNz2Jzf0
. .
     0FA4wrjDJvJTTU8AepZTup
524
525
     1Rq4GtIucW9CAcF8B6PAbW
     787rCZF9i4L1cXGMkdyIk4
526
527
     2gbMPBrBVj3CuNTLp2dHYs
528
     2ZUJsR8HEktit58X6FuPQM
                                              Artist IDs \
0
     13ubrt8Q00CPljQ2FL1Kca,30sRAKCvk37zwYcnzRf5XF,...
1
         0Y5tJX1MQlPlqiwlOH1tJY,4dYQmk5ma04mZ1KJ9KkAQK
2
                                 4MCBfE4596Uoi2O4DtmEMz
3
                                 6990TQXzgjhIYAHMy9RyPD
4
                                 0fA0VVWsX09YnASrzqfmYu
524
     4015NlyKLIASxsJ0PrXPfz,0M2CO5ijP35MDhNwvpgxTV,...
525
                                 1RyvyyTE3xzB2ZywiAwp0i
526
                                 13ubrt8Q00CPljQ2FL1Kca
527
                                 5K4W6rqBFWDnAN6FQUkS6x
528
                                 5K4W6rqBFWDnAN6FQUkS6x
                                             Track Name \
0
     A$AP Forever REMIX (feat. Moby, T.I. & Kid Cudi)
1
                               90210 (feat. Kacy Hill)
2
                                       Man Of The Year
3
                                                 R.I.P.
4
                                                 GHOST!
. .
524
              Watch This - ARIZONATEARS Pluggnb Remix
                                      I Serve the Base
525
526
                                                    LVL
                                           Off The Grid
527
                                       Heaven and Hell
528
                                        Album Name
0
                                           TESTING
1
                                             Rodeo
2
                                Legends Never Die
3
                                           Die Lit
4
     Man On The Moon II: The Legend Of Mr. Rager
         Watch This (ARIZONATEARS Pluggnb Remix)
524
525
                                     DS2 (Deluxe)
526
                  LONG.LIVE.A$AP (Deluxe Version)
527
                                             Donda
528
                                             Donda
                                   Artist Name(s) Release Date Duration (ms)
\
0
                    A$AP Rocky, Moby, T.I., Kid Cudi
                                                     2018-05-25
                                                                         315773
1
                           Travis Scott, Kacy Hill
                                                     2015-09-04
                                                                         339066
                                                                         136408
2
                                        Juice WRLD
                                                     2020-07-10
```

```
3
                                     Playboi Carti
                                                       2018-05-11
                                                                            192026
4
                                           Kid Cudi
                                                       2010-11-09
                                                                            289066
                                                                               . . .
     Lil Uzi Vert, sped up nightcore, ARIZONATEARS
                                                                            163139
524
                                                       2023-02-05
525
                                             Future
                                                       2015-07-17
                                                                           190893
526
                                         A$AP Rocky
                                                             2013
                                                                            220133
527
                                         Kanye West
                                                       2021-08-29
                                                                            339249
528
                                         Kanye West
                                                       2021-08-29
                                                                           145301
     Popularity
                                                  Added By
                                                                          Added A
t
0
                  spotify:user:gpqs1jf3s9yaezduz9yxpq2cm 2024-02-10T03:25:38
Ζ
1
              84
                  spotify:user:gpqs1jf3s9yaezduz9yxpq2cm
                                                            2024-02-10T03:25:38
Ζ
2
              71
                  spotify:user:gpqs1jf3s9yaezduz9yxpq2cm 2024-02-10T03:25:38
Ζ
3
              79
                  spotify:user:gpqs1jf3s9yaezduz9yxpq2cm
                                                            2024-02-10T03:25:38
Ζ
4
                  spotify:user:gpqs1jf3s9yaezduz9yxpq2cm 2024-02-10T03:25:38
Ζ
             . . .
              84
                  spotify:user:gpqs1jf3s9yaezduz9yxpq2cm
                                                            2024-02-16T22:42:02
524
Ζ
525
             75
                  spotify:user:gpqs1jf3s9yaezduz9yxpq2cm 2024-02-16T22:42:59
Ζ
526
             73
                  spotify:user:gpqs1jf3s9yaezduz9yxpq2cm 2024-02-16T22:43:09
Ζ
527
                  spotify:user:gpqs1jf3s9yaezduz9yxpq2cm
                                                            2024-02-16T22:43:24
Ζ
                  spotify:user:gpqs1jf3s9yaezduz9yxpq2cm 2024-02-16T22:43:40
528
Ζ
                           Speechiness
                                                        Instrumentalness
     ... Loudness
                    Mode
                                         Acousticness
0
            -6.416
                     0.0
                                0.1790
                                              0.30000
                                                                 0.000000
1
            -6.741
                     0.0
                                0.0904
                                              0.11300
                                                                 0.000008
     . . .
2
            -5.124
                     1.0
                                0.0911
                                              0.00584
                                                                 0.000000
3
            -6.067
                     0.0
                                0.1590
                                              0.01190
                                                                 0.000000
4
            -4.465
                     0.0
                                0.0253
                                              0.04940
                                                                 0.000005
               . . .
                     . . .
                                    . . .
. .
     . . .
524
            -7.180
                     0.0
                                0.0386
                                              0.01030
                                                                 0.103000
     . . .
                                                                 0.002040
525
            -5.973
                     1.0
                                0.0571
                                              0.01100
526
            -6.764
                     0.0
                                0.0536
                                              0.18000
                                                                 0.000013
     . . .
527
            -5.582
                     1.0
                                0.3700
                                              0.04380
                                                                 0.000000
528
           -7.265
                     0.0
                                0.1190
                                              0.04090
                                                                 0.000000
     . . .
     Liveness
               Valence
                            Tempo
                                   Time Signature
                                                     isLiked
0
                 0.3940
                         125.948
                                                        True
       0.1360
                                               4.0
1
                          81.404
                                               4.0
       0.1050
                 0.3120
                                                        True
2
                 0.2980
                                               4.0
       0.0860
                         173.966
                                                        True
3
       0.0860
                 0.5150
                         140.003
                                               4.0
                                                        True
4
       0.2430
                 0.3300
                           89.938
                                               3.0
                                                        True
                                               . . .
                                                         . . .
                    . . .
                         129.975
524
       0.1530
                 0.3550
                                               4.0
                                                        True
525
       0.0677
                 0.0883
                          168.202
                                               4.0
                                                        True
                                                        True
526
       0.1210
                 0.0997
                         120.085
                                               4.0
```

527 0.1370 0.6300 137.728 4.0 True 528 0.1520 0.2680 82.986 4.0 True

[486 rows x 24 columns]

In []: print(disliked)

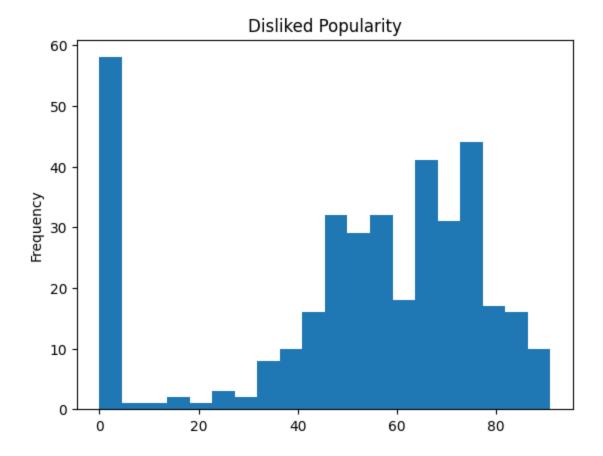
```
Spotify ID
0
     5kkxyqYSQrnHpfsmkjKi81
1
     2ooF4088y5L72c4YTEJQoB
2
     3e7Y6sfFlIdBMJhX7wpqV0
3
     67T0J1IDGgRwNMp3vWYaVb
4
     08zAFXhfyIxq9359NHksdP
. .
     2c7sRekhMGlj7u1WIIzoQu
369
     3ZaEs108BG581qYPHpQ8d6
370
371
     4Fd1NCxdyXOXKIZNKcIqAs
372
     4m4CMXt4jTczOLC14kG8cx
373
     7sTyAjxDXq9afwfSQy6D0s
                                              Artist IDs
0
                                 1Bl6wpkWCQ4KVgnASpvzzA
1
                                 15UsOTVnJzReFVN1VCnxy4
2
                                 4xRYI6VqpkE3UwrDrAZL8L
3
         6fxyWrfmjcbj5d12gXeiNV,2P5sC9cVZDToPxyomzF1UH
4
     21dooacK2WGBB5amYvKyfM,3CbYyyd8wH3RT6t0jwpdzC,...
369
                                 3gBZUcNeVumkeeJ19CY2sX
370
     13ubrt8Q00CPljQ2FL1Kca,6Xb4ezwoAQC4516kI89nWz,...
371
     3VrGfWE8YdYMK4ySpnE0ly,2RDOrhPqAM4jzTRCEb19qX,...
372
     3VrGfWE8YdYMK4ySpnE0ly,15iVAtD3s3FsQR4w1v6M0P,...
373
                                 4Gso3d4CscCijv0lmajZWs
                                              Track Name
                                             NEW ORLEANS
0
1
                                              YuNg BrAtZ
2
                                                 44 More
3
                                                  Zenith
4
            Do Not Disturb (feat. Lil Yachty & Offset)
. .
369
                                     Fighting My Demons
370
     I Smoked Away My Brain (I'm God x Demons Mashu...
     Fly Away (with Sheck Wes, Ski Mask The Slump G...
371
           Say Ya Grace (with Chief Keef & Lil Yachty)
372
373
                                                  Bandit
                                              Album Name
0
                                             iridescence
1
                                                 Revenge
2
                                     Bobby Tarantino II
3
                                                Imperial
4
                                           Bless Yo Trap
. .
369
                                           A Great Chaos
370
     I Smoked Away My Brain (I'm God x Demons Mashu...
371
                                          All Is Yellow
372
                                           All Is Yellow
                                                  Bandit
373
                                          Artist Name(s) Release Date
0
                                            BROCKHAMPTON
                                                           2018-09-21
1
                                            XXXTENTACION
                                                           2017-05-16
2
                                                   Logic
                                                           2018-03-09
3
                               Denzel Curry, Joey Bada$$
                                                           2016-10-14
```

			ita_Exploration	oupytor recto	DOOK		
4	Smokepurpp,	Murda E	Beatz,Lil	Yachty,0f	fset 20	18-04-1	3
					• • •		
369				Ken Ca	rson 20	23-10-1	3
370	A\$AP R	ocky,Ir	nogen Heap	Clams Ca	sino 20	23-08-1	8
371	Lyrical Lemonade, She	ck Wes	,Ski Mask	The Slump	20	24-01-2	6
372	Lyrical L					24-01-2	6
373	-		-	Don Tol	-	24-02-0	1
	Duration (ms) Popul	aritv				Adde	d By \
0	243280	54	spotify:	ser:gpqs1	if3s9vaez		-
1	101851	77		ser:gpqs1	-		•
2	188600	66		ser:gpqs1			-
3	242889	53		ıser:gpqs1			-
3 4							
4	157557	0	Sportty:	ser:gpqs1	Јт359уае2	uuzsyxp	42Cm
••	450404	• • •		4			•••
369	150401	81		ser:gpqs1	•		•
370	190285	84		ser:gpqs1	-		•
371	185538	71		ser:gpqs1			-
372	156800	73		ser:gpqs1	-		•
373	147746	84	spotify:ι	ser:gpqs1	jf3s9yaez	duz9yxp	q2cm
	Added At	l	Loudness	Mode Spe	echiness	Acoust	icness \
0	2024-02-10T03:25:57Z		-4.962	0	0.2520	0	.23200
1	2024-02-10T03:25:57Z		-5.963	1	0.2600	0	.01790
2	2024-02-10T03:25:57Z		-7.098	0	0.2210	0	.07180
3	2024-02-10T03:25:57Z		-5.276	0	0.0966	0	.08710
4	2024-02-10T03:25:57Z		-4.566	0	0.0659	0	.20300
369	2024-02-10T03:25:57Z		-4.970	1	0.0518	0	.00437
370	2024-02-10T03:25:57Z	• • •	-9.629	1	0.0561		.08310
371	2024-02-10T03:25:57Z	• • •	-9.384	0	0.0835		.33800
372	2024-02-10T03:25:57Z		-8.807	0	0.1090		.01370
373	2024-02-10T03:25:57Z		-9.593	1	0.0955		.00113
373	2024 02 10103:23:372	•••	J. J.J	-	0.0555	Ū	.00113
	Instrumentalness Liv	vanacc	Valence	Tempo	Time Sig	natura	iclikad
0					Time Sig	11acui e 4	
0	0.000000	0.299		159.903			False
1	0.000000	0.107		128.063		4	False
2	0.000000	0.106	0.2190	139.965		4	False
3	0.000000	0.154	0.2100	91.715		4	False
4	0.001850	0.335	0.2120	131.026		4	False
• •	•••	• • •		• • •		• • •	
369	0.000010	0.430	0.0389	141.659		4	False
370	0.000041	0.175	0.1040	141.981		4	False
371	0.00000	0.384	0.3090	129.908		4	False
372	0.00000	0.120	0.4030	150.095		4	False
373	0.000001	0.211	0.1090	130.031		4	False

[372 rows x 24 columns]

```
In [ ]: popDf = pd.DataFrame(disliked["Popularity"])
popDf['Popularity'].plot(kind='hist', bins=20, title='Disliked Popularity')
```

Out[115]: <Axes: title={'center': 'Disliked Popularity'}, ylabel='Frequency'>



In displaying the heads for disliked I noticed a song with a Popularity score of 0 which was alarming to me because almost all of the songs on this playlist should be somewhat popular given the nature of how they were taken from a public playlist. Also alarming were the two very popular artists on the one specific song. In looking further into it that song has 100 million streams on Spotify which surely would not correlate to a score of 0. In the representation above I also noticed the most common score in popularity for the dislikes is 0 so I will need to investigate.

```
In [ ]: filtered_df = liked[liked["Popularity"] == 0]
print(filtered_df["Track Name"])
```

```
19
                                          United In Grief
23
                                             Count Me Out
24
                                                   Mirror
                               On Time (with John Legend)
226
232
       Feel The Fiyaaaah (with A$AP Rocky & feat. Tak...
                 Trance (with Travis Scott & Young Thug)
237
480
                                           Just What I Am
489
                                                     Walk
492
                                           Never Catch Me
       F**kin' Problems (feat. Drake, 2 Chainz & Kend...
502
511
                      Party and Bullshit - 2008 Remaster
527
                                             Off The Grid
528
                                          Heaven and Hell
```

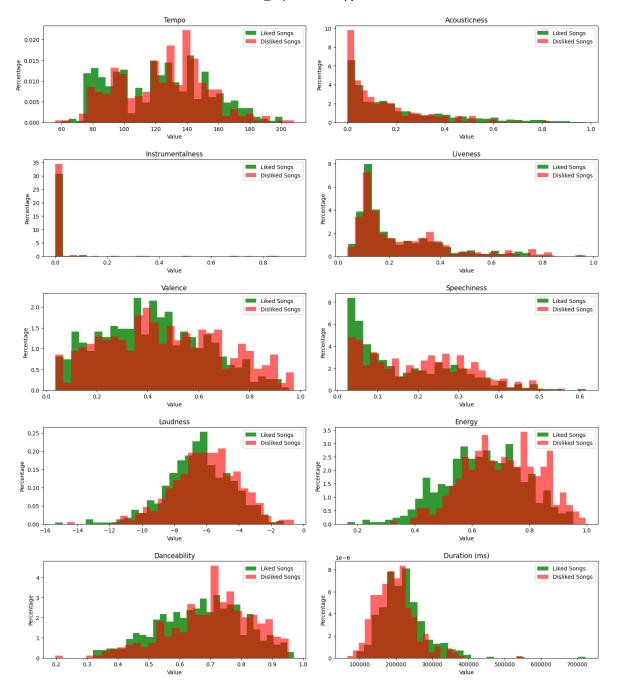
Name: Track Name, dtype: object

In just a quick manual search of these songs makes me believe this is an error. The popularity value defined by Spotify is, "based, in the most part, on the total number of plays the track has had and how recent those plays are." The oldest of these songs is two years so it seems difficult to say they have a popularity of 0.

```
In [ ]: filtered_df = liked[liked["Album Name"].isin(["HEROES & VILLAINS", "Mr. Morale
print(filtered_df["Track Name"])
```

```
United In Grief
19
20
                                                      N95
                                                 Die Hard
21
22
                                              Rich Spirit
23
                                             Count Me Out
24
                                                   Mirror
95
                                                   Savior
166
                                                    Crown
226
                               On Time (with John Legend)
227
       Superhero (Heroes & Villains) [with Future & C...
228
       Niagara Falls (Foot or 2) [with Travis Scott &...
230
       Too Many Nights (feat. Don Toliver & with Future)
                            Around Me (feat. Don Toliver)
231
       Feel The Fiyaaaah (with A$AP Rocky & feat. Tak...
232
233
                  Raindrops (Insane) [with Travis Scott]
234
                  Umbrella (with 21 Savage & Young Nudy)
235
                           Metro Spider (with Young Thug)
       I Can't Save You (Interlude) [with Future & fe...
236
237
                 Trance (with Travis Scott & Young Thug)
239
                                         The Heart Part 5
241
       Walk Em Down (Don't Kill Civilians) [with 21 S...
243
                               Father Time (feat. Sampha)
310
                                               Mr. Morale
320
                  Creepin' (with The Weeknd & 21 Savage)
                                              Silent Hill
383
388
                                       Worldwide Steppers
389
                                            Purple Hearts
390
                                           Auntie Diaries
521
       Feel The Fiyaaaah (with A$AP Rocky & feat. Tak...
522
       Superhero (Heroes & Villains) [with Future & C...
Name: Track Name, dtype: object
```

Here are all the songs within the same albums as the songs with 0 for popularity in the liked dataframe. Not a single one of the songs on the 0 popularity list are the least listened to, and, by nature, are not older than any of the other songs. This indicates that there is, to some extent, an error. I am thinking this is likely to not be treated as I can't remove every song with a score of 0 in popularity because some of them could very well have a 0. I will likely experiment with the model to see if removing the column all together provides any increase and decrease in the accuracy of the model.



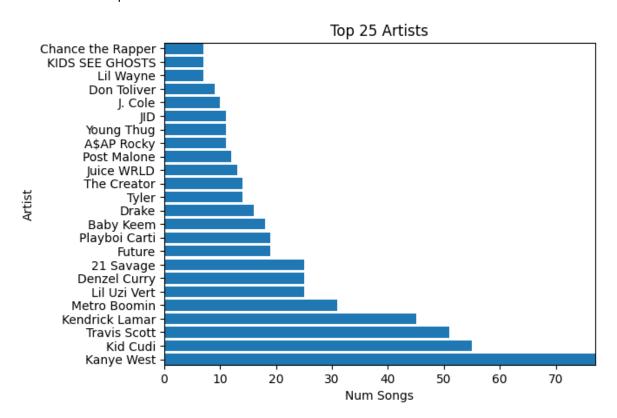
There's two major things I notice with these visualizations. Firstly Instrumentalness will likely have little to no impact on the accuracy of the model due to how very clearly skewed it is in both models. The second thing I noticed is the fact that there is a slight pattern between the duration of the song and the likability. This was the opposite of what I suspected. Despite this I will still likely not include duration in the final model because I don't really think of a song being ruined by its length (as shown by the twelve minute song) and as a result I don't want the model to suggest songs simply because they aare of a certain length.

```
In [ ]: #Avoid issue with matplotlib and artists with a "$" in their name
data = liked
data["Artist Name(s)"] = data["Artist Name(s)"].str.replace("$", "\$")
```

<ipython-input-119-ab3191126861>:3: FutureWarning: The default value of rege
x will change from True to False in a future version. In addition, single ch
aracter regular expressions will *not* be treated as literal strings when re
gex=True.

data["Artist Name(s)"] = data["Artist Name(s)"].str.replace("\$", "\\$")

number of unique artists: 203



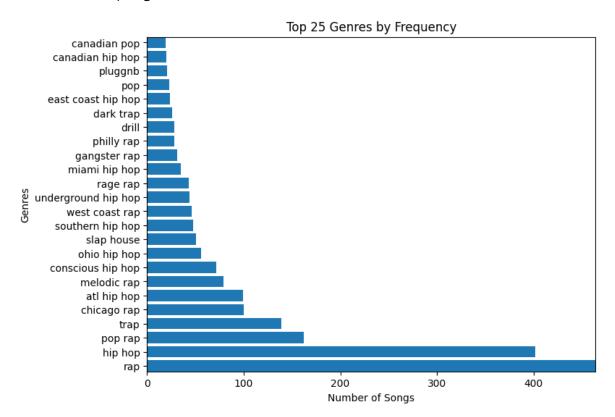
I have yet to decide how to deal with the Artist category. The category containts helpful information however I suspect there are some flaws that need to be avoided. A normalized label encoding based of frequency seems nice but ignores two things. Firstly, how many songs the artist has. For example, Kanye West has about 75 appearances here, however this is closer to 10% of his songs whereas Baby Keem has about 17 but only 90 released songs coming out to 19% of his songs. Label encoding however would boost Kanye's weighting by factor of about 4 over Baby Keem. There seems to be a simple solution of turning this feature into a percent of all artist songs that are on the playlist but this has two issues again. The scale of finding out this percentage for every unique artist, and also the fact that it assumes the listener has heard every song from the included artists.

Im leaning toward a simple normalized label encoding based on frequency but mapping the lowest value to 0 so that the model doesn't assume a value of 0 here equated to dislike. I do need to decide if I don't care about feature artists or how to incorporate them into this value.

(Note for myself in the future, "Tyler, the Creator" is being split into "Tyler" and "the Creator")

```
#Generate a frequency graph of split genres (top 25 for readability)
In [ ]:
        data = liked
        genres = defaultdict(int)
        for i,song in data.iterrows():
            for genre in song['Genres'].split(','):
                genres[genre] += 1
        # sort for chart
        genres = pd.DataFrame(genres.items(), columns=['Genres', 'Number of Songs']
                                   ).sort_values('Number of Songs', ascending=False).re
        print("number of unique genres:", genres.shape[0])
        plt.figure(figsize=(8, 6))
        #Create a horizontal bar graph for readability
        plt.barh(genres['Genres'][:24], genres['Number of Songs'][:24])
        plt.xlabel(genres.columns[1])
        plt.ylabel(genres.columns[0])
        plt.title('Top 25 Genres by Frequency')
        plt.autoscale(tight=True)
        plt.show()
```

number of unique genres: 192



Similar issues here to the artist feature. However, this time there is no chance of calculating the genre frequencies as a percent of a whole. Will need to label encode to include in the model and, again, determine how multiple listed genres will be included

•	•	Danceability		_	Loudness	Mode	Speechiness
0	64	0.428	0.754		-6.416	0.0	0.1790
1	84	0.402	0.526		-6.741	0.0	0.0904
2	71	0.621	0.695		-5.124	1.0	0.0911
3	79	0.725	0.725		-6.067	0.0	0.1590
4	60	0.516	0.708	9.0	-4.465	0.0	0.0253
··		0.00			7 100		0.0296
524	84	0.686	0.897		-7.180	0.0	0.0386
525	75 	0.636	0.576		-5.973	1.0	0.0571
526	73	0.597	0.427		-6.764	0.0	0.0536
527	0	0.546	0.646		-5.582	1.0	0.3700
528	0	0.764	0.422	0.0	-7.265	0.0	0.1190
	Acousticness	Instrumenta	lness	Liveness	s Valence	Ten	іро \
0	0.30000		00000	0.136			•
1	0.11300		00008	0.105			
2	0.00584		00000	0.0866			
3	0.01190		00000	0.0866			
4	0.04940		00005	0.2436			
••	•••			•••			•••
524	0.01030	0.1	03000	0.153			
525	0.01100		02040	0.067			
526	0.18000		00013	0.121			
527	0.04380		00000	0.1370			
528	0.04090		00000	0.152			
	-						
^	Time Signatu						
0		.0 True					
1		.0 True					
2		.0 True					
3		.0 True					
4		.0 True					
524		.0 True					
525		.0 True					
526		.0 True					
527		.0 True					
528	4	.0 True					

[486 rows x 14 columns]

Conclusion

Due to the distribution of the variables and the similarities of the music, I find it difficult to believe that the model will be very accurate without Artist and or Genre data. This is furthered by the fact that both the liked and disliked data sets are mostly rap/hip-hop and are, by

definition, similar. I have decided that I will not be including artists or Genres because I think it would skew too heavily toward rap/hip-hop and artists I frequent and would prefer it to be