HOME

YOUR TOP SONGS

PLAYLIST

01 *Risk*

02 *Borderline*

03 *Save Your Tears*

04 *Bombay Rhapsody*

THANKS!

Spotify Streaming Analytics Dashboard

By: Aanvi Goel

Mars Is a Cold Place
The 15th Planet

2:54

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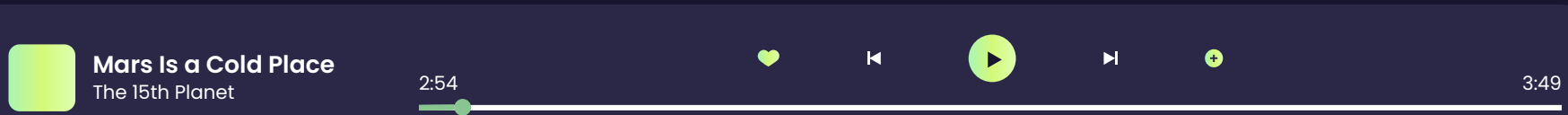
Overview

- **Spotify** is a Swedish audio streaming company that that has taken over globally, with 33 million monthly active users, including 188 million paying subscribers, as of June 2022

- Building a **dashboard** to visualize the audio trends on Spotify would help music enthusiasts, audiophiles and music creators gain insights to latest trends in the music industry



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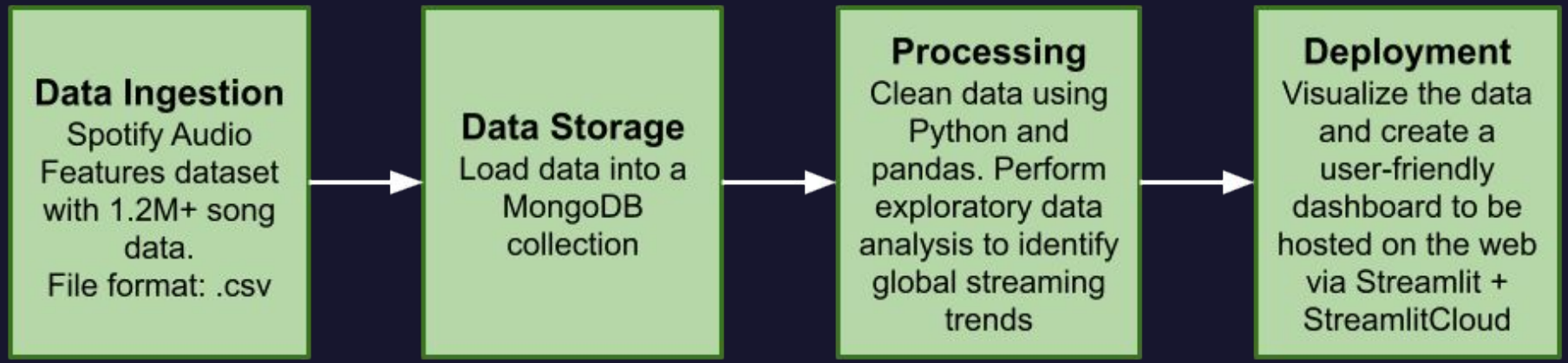
Data Pipeline



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Data Ingestion

- **Dataset: Spotify 1.2+M Songs** dataset from Kaggle
- Format : **.csv**
- 1.2+ M data points for Spotify streamed songs

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```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 1173210 entries, 0 to 1204024
Data columns (total 20 columns):
 #   Column            Non-Null Count    Dtype
---  ------            --------------    -----
 0   id                1173210 non-null  object
 1   name              1173210 non-null  object
 2   album             1173210 non-null  object
 3   artists           1173210 non-null  object
 4   artist_ids        1173210 non-null  object
 5   explicit          1173210 non-null  object
 6   danceability      1173210 non-null  float64
 7   energy            1173210 non-null  float64
 8   key               1173210 non-null  int64
 9   loudness          1173210 non-null  float64
 10  mode              1173210 non-null  int64
 11  speechiness       1173210 non-null  float64
 12  acousticness      1173210 non-null  float64
 13  instrumentalness  1173210 non-null  float64
 14  liveness          1173210 non-null  float64
 15  valence           1173210 non-null  float64
 16  tempo             1173210 non-null  float64
 17  duration_ms       1173210 non-null  int64
 18  year              1173210 non-null  int64
 19  release_date      1173210 non-null  object
dtypes: float64(9), int64(4), object(7)
memory usage: 188.0+ MB
```

Data Set

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Data Storage

- **MongoDb - PyMongo**

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Processing

- **MongoDb - PyMongo** Cleaning EDA performed to create -> **Processed.csv**
- Pickle used to create lighter Dataframes

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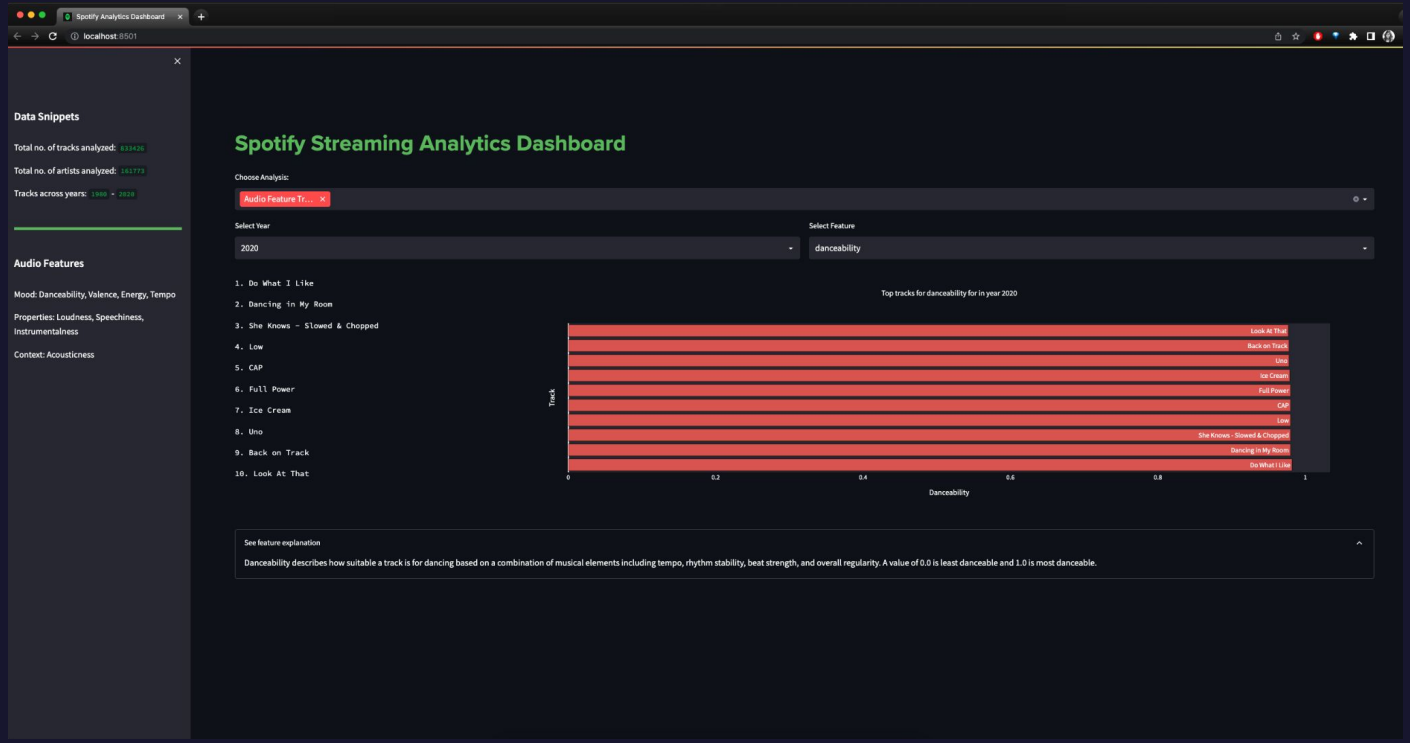
Deployment

- Streamlit Application developed and deployed on Streamlit Cloud

Streamlit App



Spotify Streaming Analytics Dashboard

Choose Analysis:

Audio Feature Tr... ×

Select Year

2018

Select Feature

loudness

danceability
energy
loudness
speechiness
acousticness
instrumentalness
valence
tempo

1. No Damin' Up the Mighty Mississipp
2. Baseless Recursions
3. Rope in a Yankee
4. Kiss the Dog
5. Raw
6. Landed Me Montana
7. Doubts Are Just Detours
8. Last Words
9. Halleluyah
10. Everything Again

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Future Improvements

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