Spotify's Musical Landscape: A Visual Journey Through Data Aniruddha Ganguly (ID: 115362220)

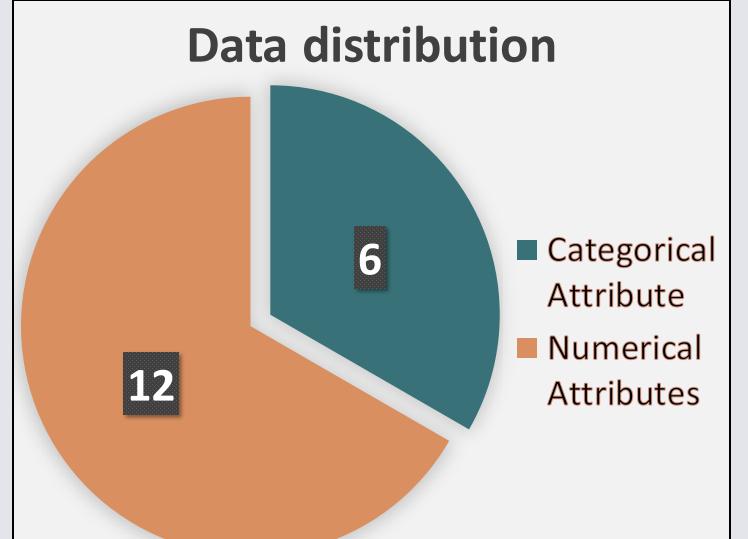
Hritam Basak (ID: 114783055)

Dataset

Data Source: API call to fetch data from Spotify.com

Merge this data with two other datasets:

- Artist information data
- Spotify-Youtube Database



Important Attributes:

- Track and Artist (C)
- Artist Country (C)
- Album type (C)
- Danceability (N)
- Valence (N)
- Tempo (N)
- Genre (C)
- Stream Count (N)

Interaction of Plots





Visualizations

Choropleth Map



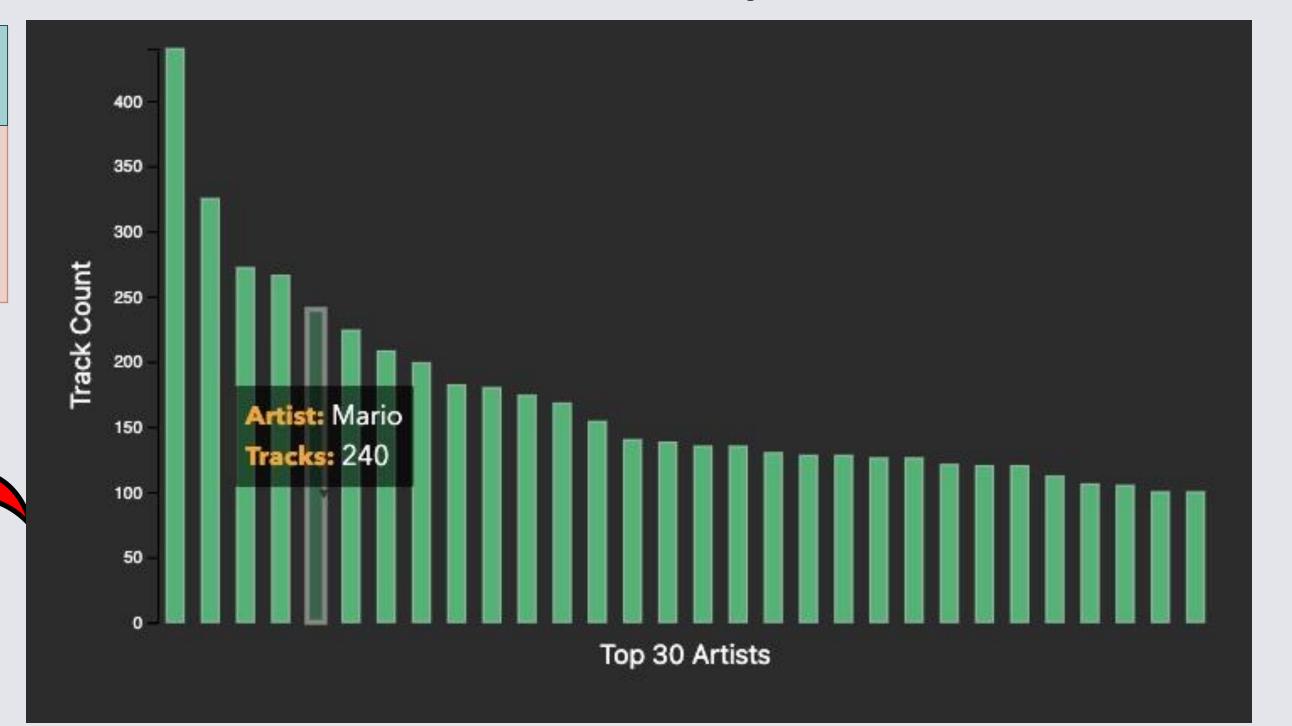
Key Features

- User can zoom in/out
- Highlight upon hover
- **Color-wise heatmap**

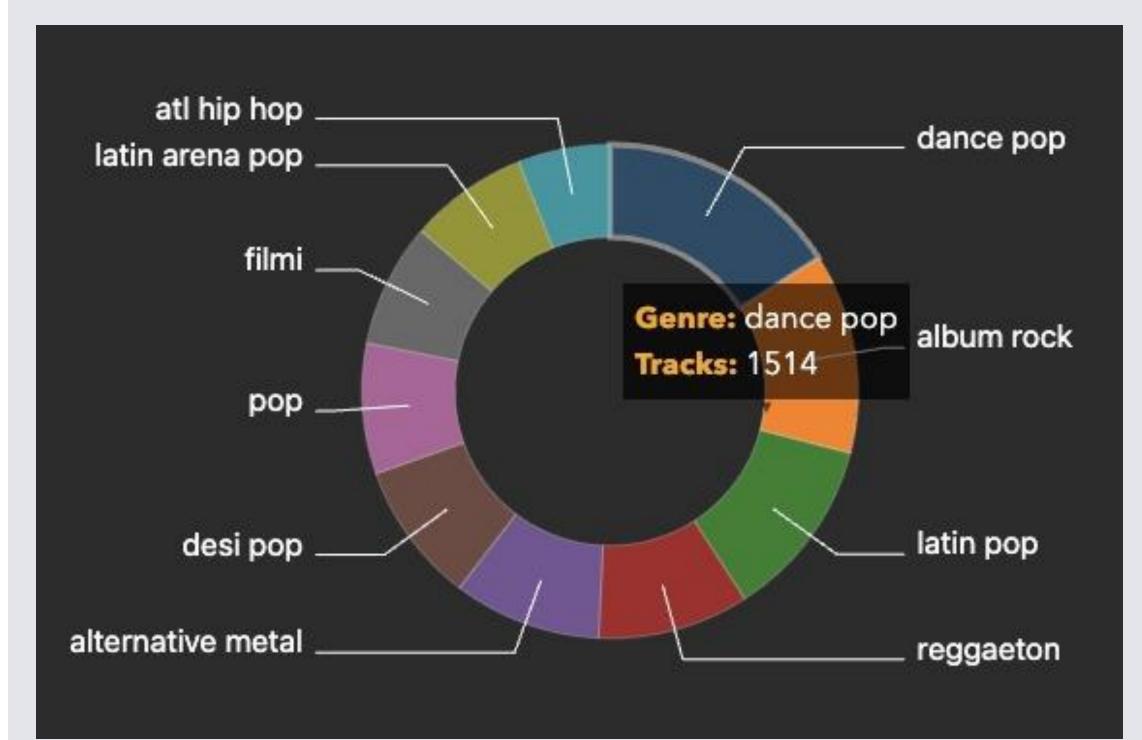
Key Features

- Top N artists (N<=30)
- Count of artist's tracks
- Highlight upon hover

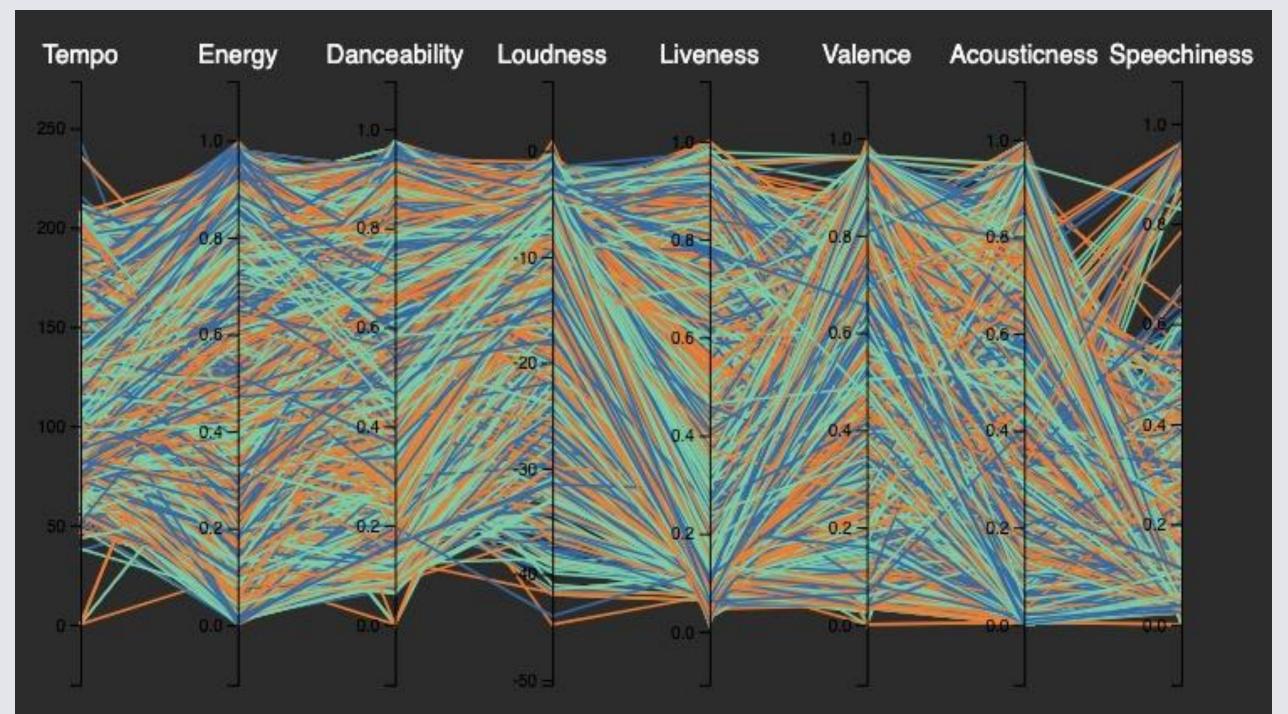
Bar Chart of Top N Artists



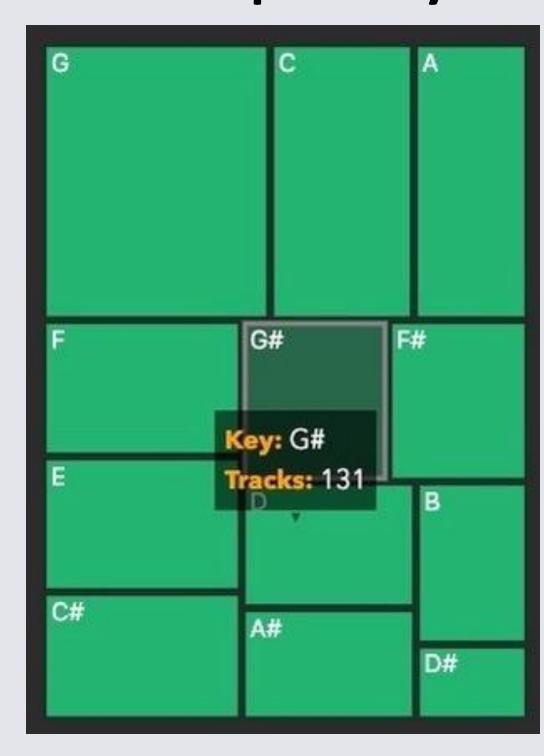
Donut Chart of Genre



Parallel Coordinate Plot of Track Attributes



Tree map of Keys



Key Features

- Distribution of different genre
- Highlight upon hover

higher 'Stream'.

Sum of Stream (Billions)

Number of track per genre

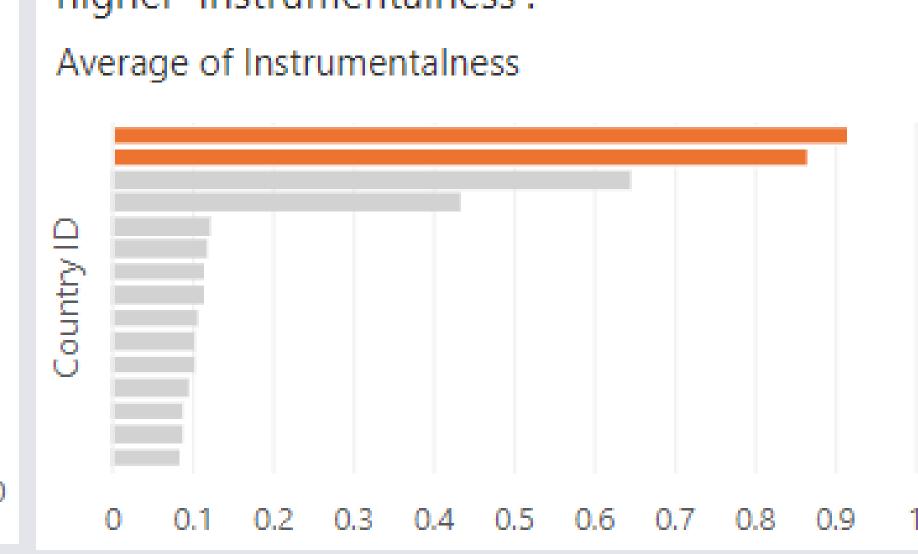
Key Features

- Correlation among multiple attributes
- Distribution of different clustered data

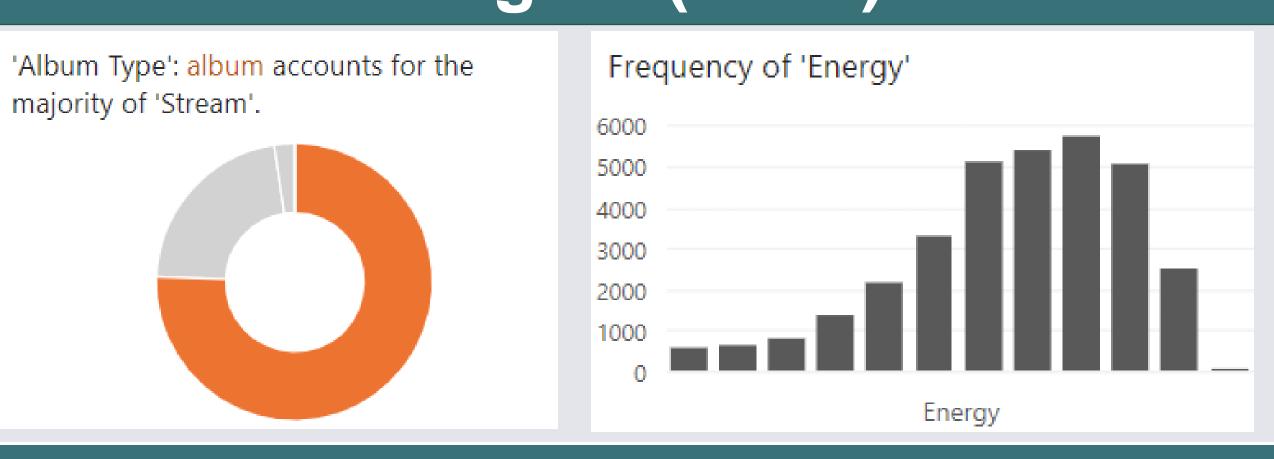
Key Features

- Distribution of key scales globally
- **Artist and country-wise key distribution**

Insights 'Country ID': HUN and COD have noticeably 'Genre': pop and dance pop have noticeably higher 'Instrumentalness'. Average of Instrumentalness



Insights (cont.)



References

- Bostock, Mike. "D3.js Data-Driven Documents." 2012. http://d3js.org/.
- Ward MO, Grinstein G, Keim D. Interactive data visualization: foundations, techniques, and applications. CRC press; 2010 Jun 14.
- Aggarwal CC. Data mining: the textbook. New York: springer; 2015 Apr 13.