Exploring the World of Sound: Vizionary's Beats from Bytes

The Vizionaries

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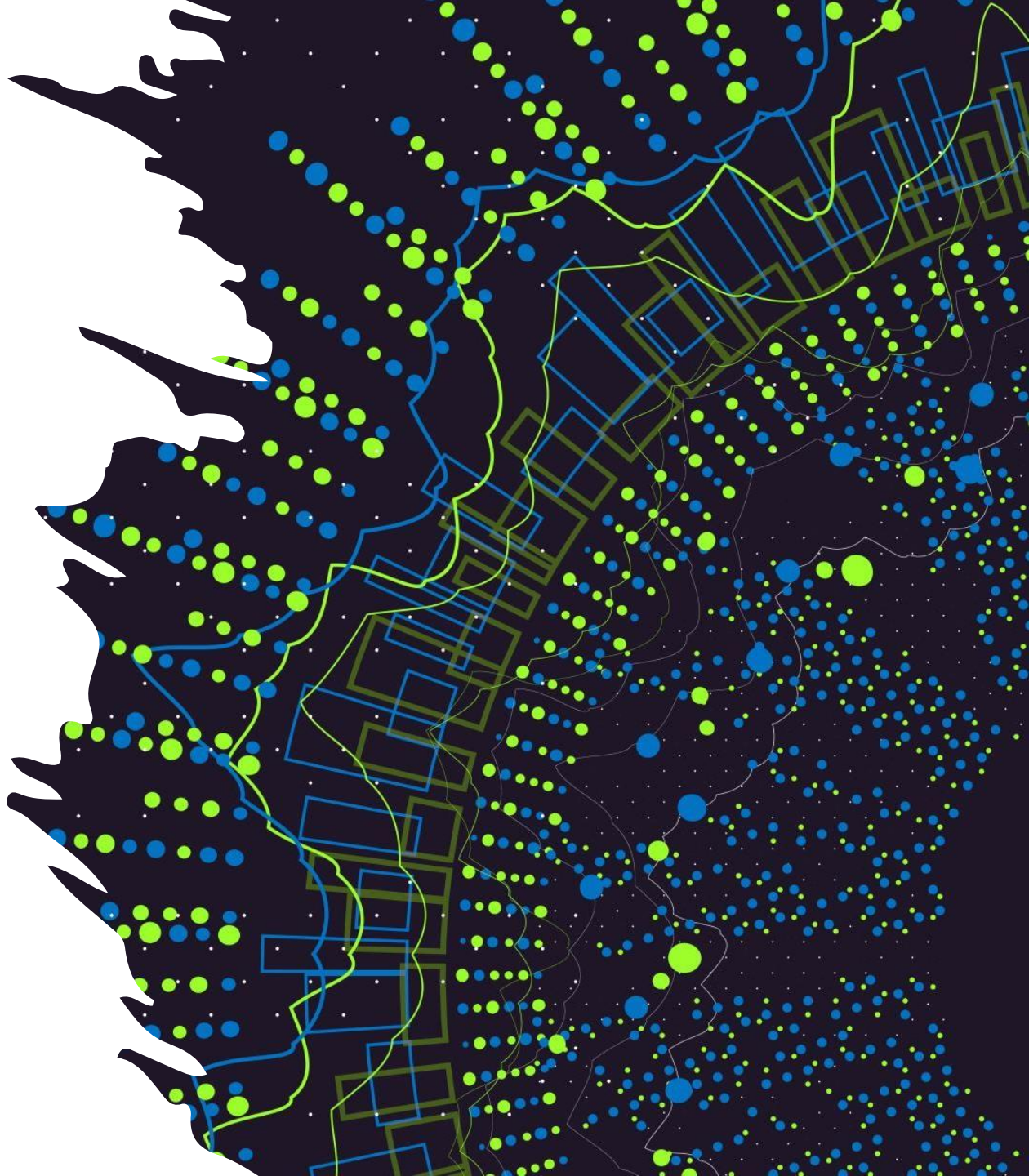
Unlocking the Music Data

- Music has become an integral part of our lives and understanding the trends, preferences can provide valuable insights.
- Spotify's Digital Dominance
  - A global music powerhouse with a vast catalog, millions of artists and countless playlists at out fingertips.
- Interactive Visualizations
  - Create an interactive visualization to generate meaningful insights.

Why Should We Dive into Music Data?

- Music Ubiquity:
  - Music transcends boundaries, serving as a universal language and emotional outlet.
- Industry Insights:
  - Informed decisions for artists, labels, and marketers can be powered by music data.
- Project's Promise:
  - Deeper insights, interactive exploration, and predicting the future of music.



Relevant Work

Today, we have got lot of websites offering visualizations around song and artist data. However, due to poor visualization technique, the challenge lies in turning these visuals into actionable knowledge.

Last.fm is a well-known website that offers data visualizations about popular artists and tracks. However, it's worth noting that Last.fm does not provide visualizations related to locality based listeners or artist popularity.

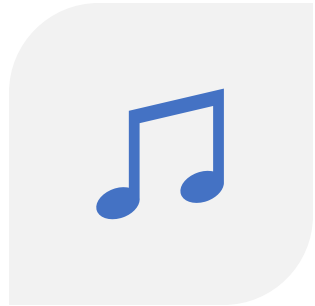
MusicMap.info is an excellent resource for music lovers to explore connections between songs and artists. However, it currently lacks more in-depth visualization options beyond this core mapping feature.

Objectives

DATA COLLECTION AND PREPROCESSING.

REGIONAL MUSIC TASTE ANALYSIS.

COLLABORATIONS PATTERN AMONG TOP ARTISTS.



SEASONAL INFLUENCE ON MUSIC CONSUMPTION.

Dataset

Scraping data using Spotify Web API

Integrating data from spotify, billboard to get the required timeseries data and track related data

Data preproccessing

Data Analysis, we need track name, artist, time series data for a top 10 tracks/artists/genres, which we get from the previous operations

Visualization

Interactive visualisation for the time series data where we can filter based on track, artist and genre

Radar chart for visualizing the collaboration amongst the artists

Line graph for depicting the seasonal effect on music.

Also, various EDA graphs will be presented to depict some information on the final dataset.

References

- https://developer.spotify.com/documentation/web-api/reference/search
- https://www.last.fm/dashboard
- https://musicmap.info/
- https://stevesie.com/apps/spotify-api

Thank You