## Spotify Data Analysis

#2 + ...

#### Introduction

This presentation explores key Spotify track features and popularity using data analytics. It covers objectives, data sources, and detailed analysis of musical and popularity trends.



^ 2 /29 **∨** − 152% + <sup>□</sup> Fit

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## Project Overview

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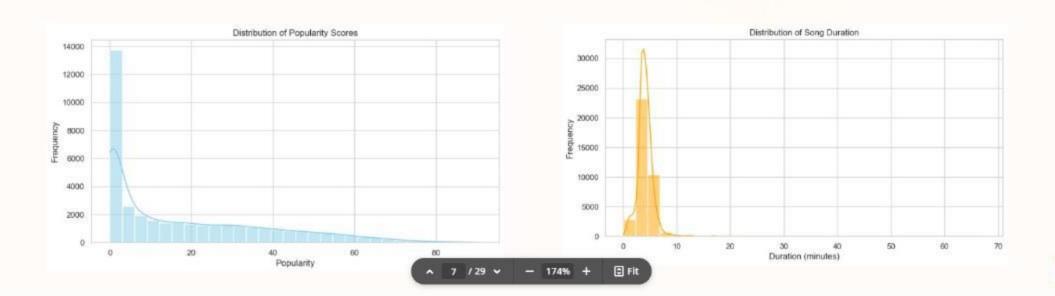
The project uses **Python** libraries such as *pandas*, *Seaborn*, and *Matplotlib* for data analysis and visualization. Methods include exploratory data analysis, statistical grouping, and plotting binned averages to reveal relationships between track features and popularity.

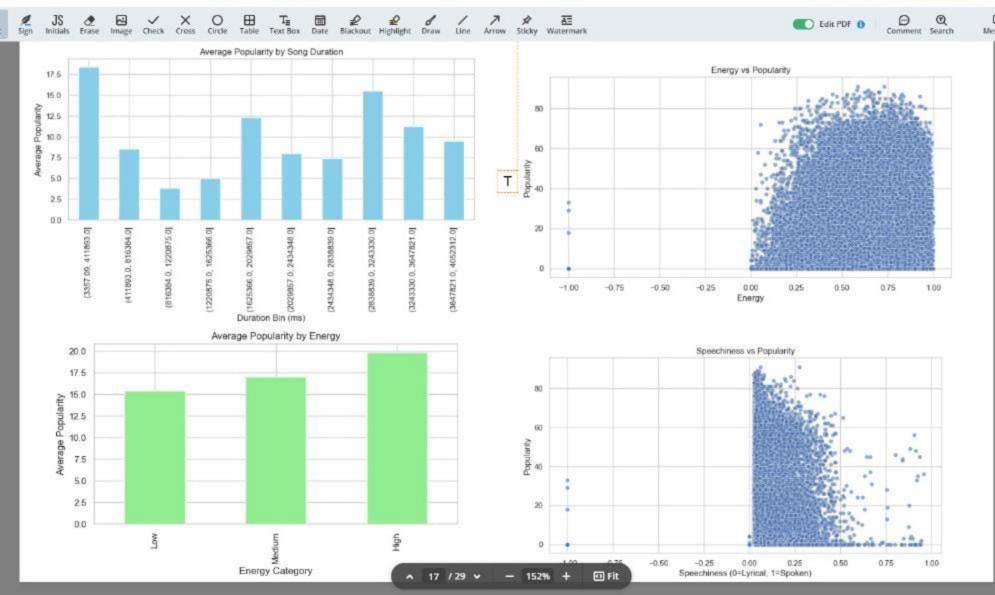
### Methodology and Tools *Used*

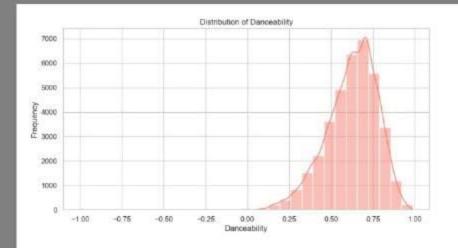
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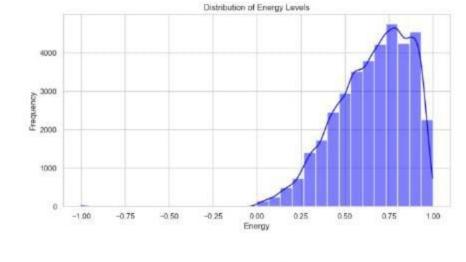
# Data Analysis and

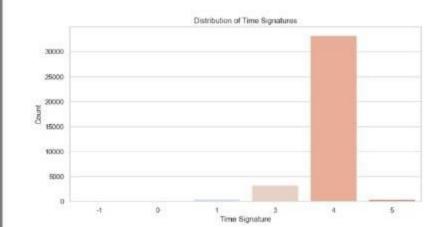
### Visualization

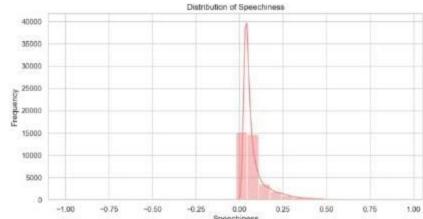


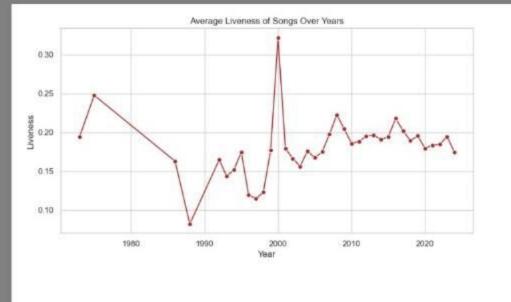


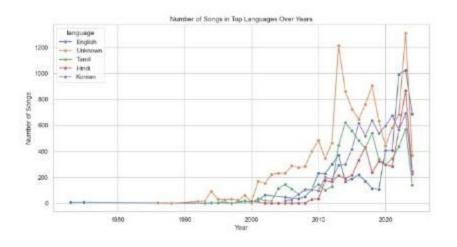


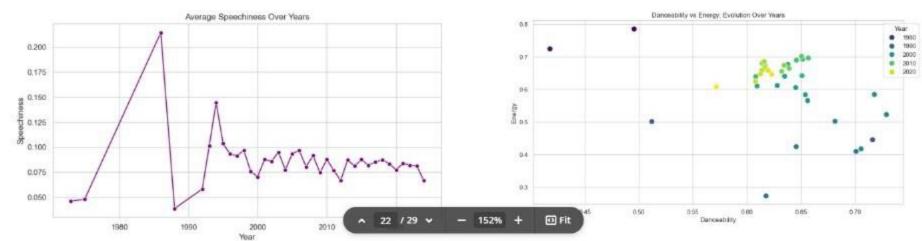


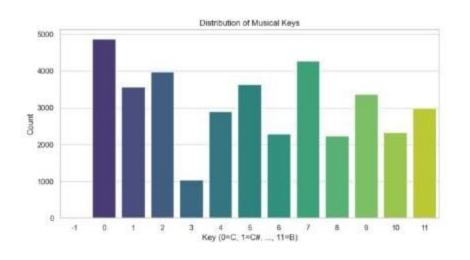


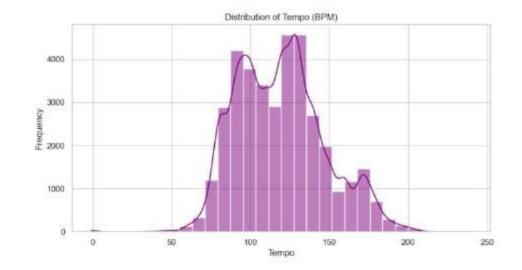


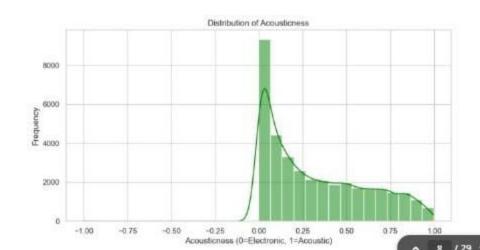


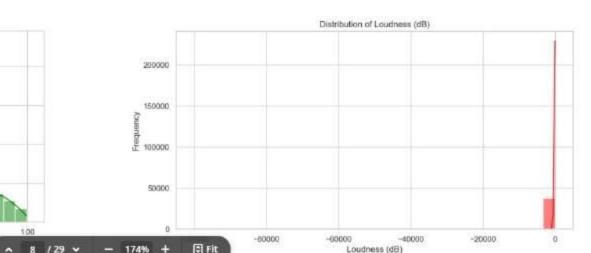


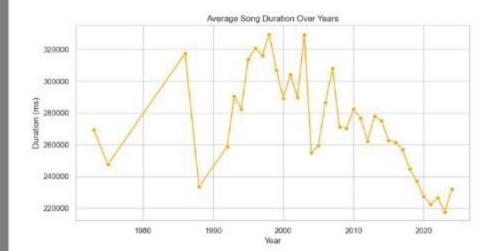


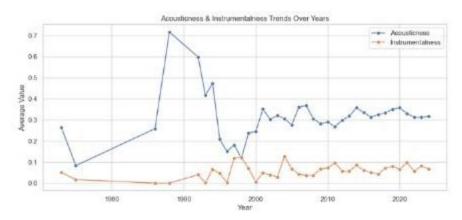


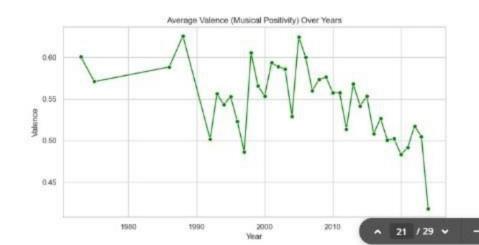


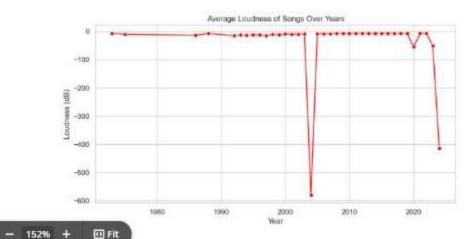


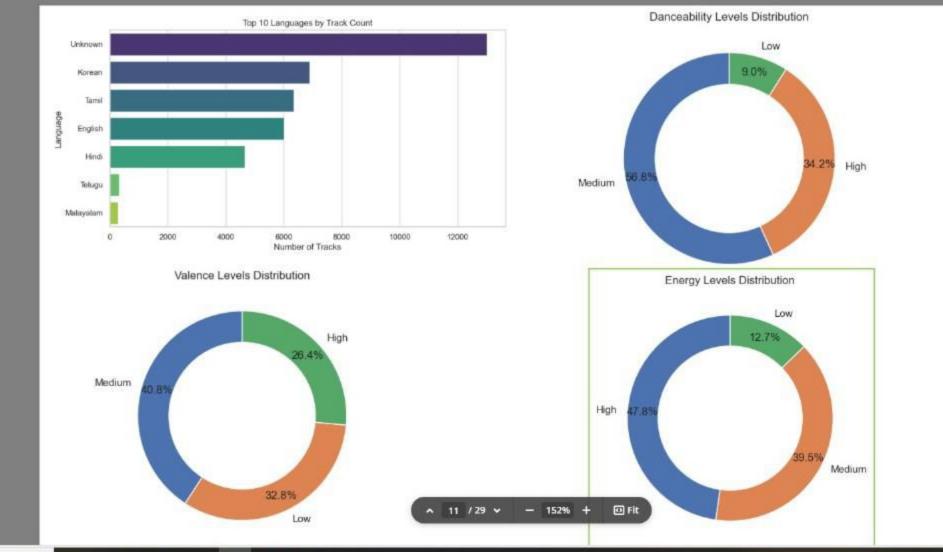








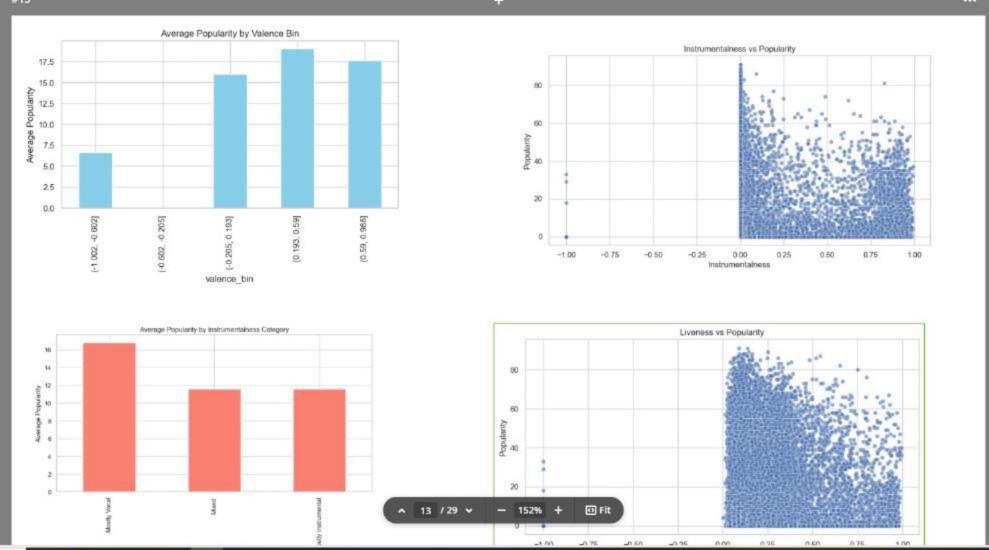


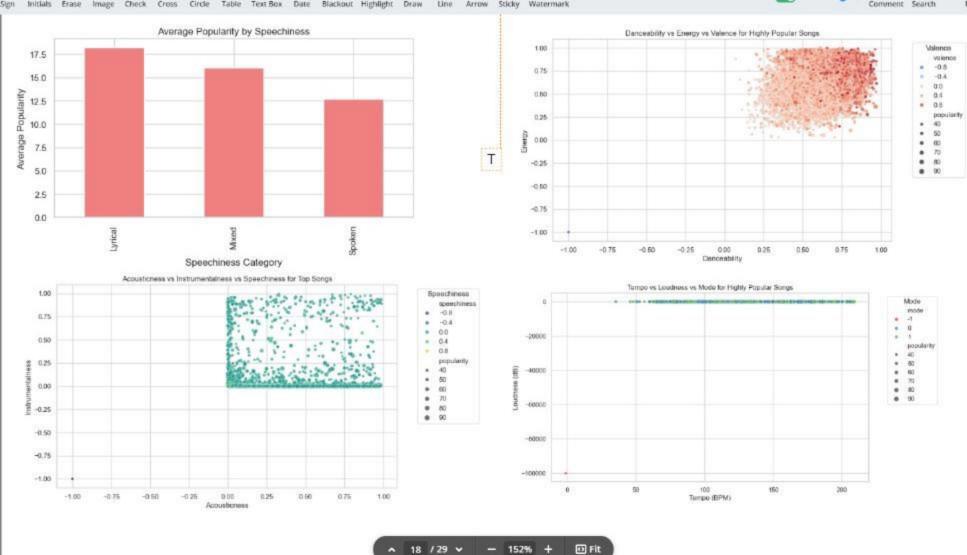


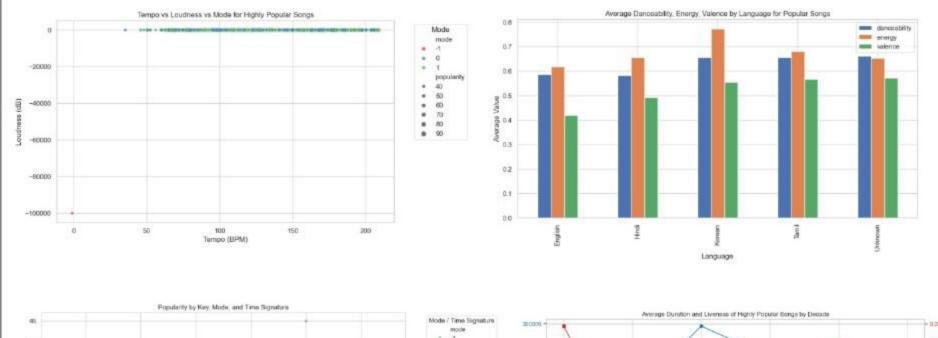
Analysis includes track languages and yearly trends in song characteristics, showing how listener preferences evolve with popular languages including English, Spanish, and others over time.

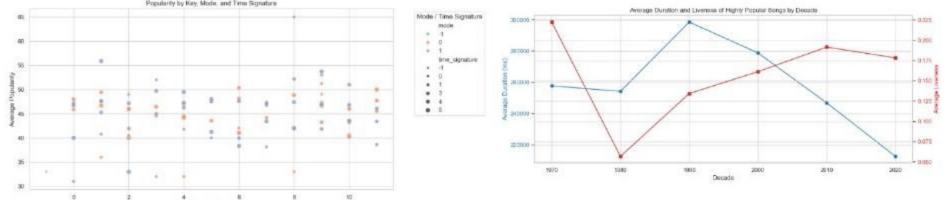
### User Demographics and Behavior







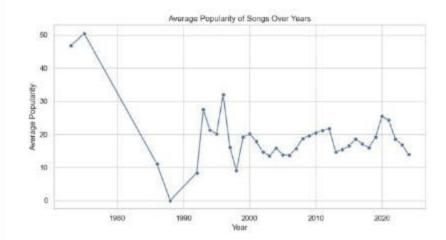


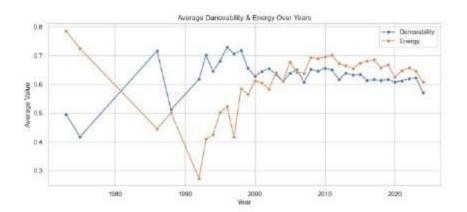


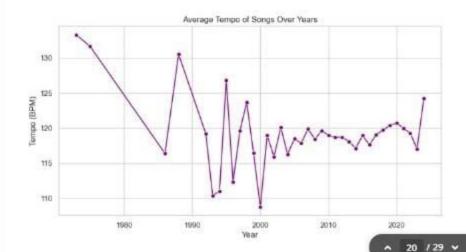
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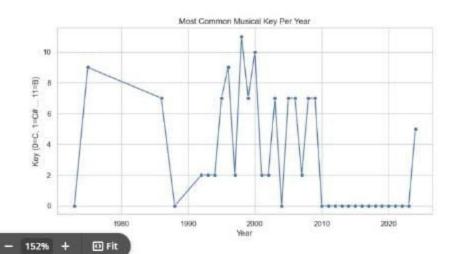
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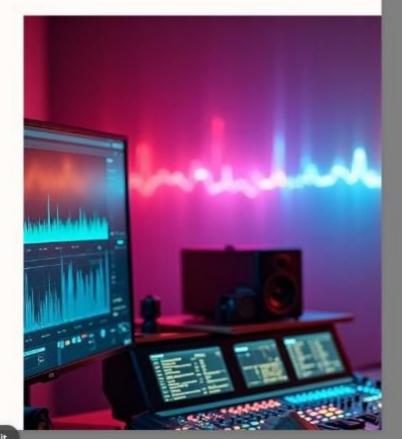
### Sentiment and Genre Analysis

Examines musical positivity (valence), speechiness, and instrumentalness with respect to popularity, revealing trends in emotional tone and genre characteristics favored by listeners.



### Conclusions

Spotify data reveals that energy, danceability, and valence positively influence track popularity. Trends in language, tempo, and other audio metrics provide valuable insight into music consumption and preferences for targeted content strategies.



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