

Topic Proposal

Beats and Bytes : A Statistical Symphony of Spotify's best tracks

This project delves into the top-ranking songs on Spotify, exploring the intricate dynamics behind global and regional music trends. Using data on track features like danceability, energy, tempo, and popularity, we uncover what makes a song a chart-topper. By examining patterns in explicit content, album releases, and listener preferences across countries, this exploratory analysis offers valuable insights into the evolving world of music streaming.

SMART Questions:

1. How does the diversity of artist representation (artists) in the Global Top 50 playlist compare to country-specific playlists, and what are the key differences in terms of popularity and daily rank trends over the past six months?
2. What is the relationship between danceability and popularity in the Global Top 50 playlist compared to country-specific playlists, and are high-danceability songs more likely to climb ($\text{weekly_movement} > 5$) the charts?
3. Are there seasonal trends in the album release date that correlate with higher popularity or better daily rank, and do songs released in certain months perform better across different regions?
4. What are the characteristics (e.g., tempo, energy, valence, danceability) of songs that have the fastest rise in rankings ($\text{daily_movement} < -10$) and those that experience the sharpest drop ($\text{daily_movement} > 10$), and do these trends differ between the Global Top 50 and country-specific playlists?

Source of the dataset : [Kaggle](#)

GitHub repo : [Team5](#)