

Data Description:

Our dataset comprises various attributes related to songs, each lending insight into the song's characteristics and its genre. Below is a breakdown of the columns present in our data:

- **artist_name**: The name of the artist or group that performed the song.
- **track_name**: The title of the song.
- **computed_key**: A computed attribute that helps identify the song uniquely.
- **year**: The year the song was released.
- **danceability**: A metric quantifying the suitability of the song for dancing based on tempo, rhythm stability, beat strength, and overall regularity.
- **energy**: A measure of intensity and activity. Typically, energetic tracks feel fast, loud, and noisy.
- **key**: The primary key in which the song is played.
- **loudness**: The overall loudness of the track in decibels (dB).
- **mode**: Modality of the track, indicating major or minor.
- **speechiness**: This quantifies the presence of spoken words in a track.
- **acousticness**: A confidence measure indicating the likelihood the song is acoustic.
- **instrumentalness**: Predicts whether a track contains no vocals.
- **liveness**: Detects the presence of a live audience in the recording.
- **valence**: A metric describing the musical positiveness conveyed by a track.
- **tempo**: The speed or pace of a given piece in terms of beats per minute (BPM).
- **duration_ms**: The total duration of the song in milliseconds.
- **time_signature**: The musical time signature of the track.
- **genre**: The genre or category the song belongs to.
- **lyrics**: The words or text of the song.
- **hit**: A binary indicator signifying if the song was a hit or not.

Most of these attributes were sourced from the Spotify API. It's important to highlight that the Spotify API license permits the use of their data for personal and non-commercial purposes only.

For the 'lyrics' column, data was integrated from the Genius API. This API is covered under the MIT License. The license allows for the unrestricted use, modification, and distribution of the software and associated files, provided that the copyright notice and the permission notice are retained in all copies or significant portions of the software.

Credits:

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