

Techno Melody



Idea: Music Recommender System Inspired by Spotify

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Concept: We are going to create a website where users can get song recommendations based on the genres they are interested in or based on the inputted song. There will be a list of genres under the search bar for them to choose the genre or they can input a spotify song link in the search bar.

If given more time, the AI can recommend more music genres based on their music taste thus far. It can also give an option to change the basic dynamics, such as tempo and speed of the song, as an interactive part which will require data visualization.

Task: All group members are going to work together on each section since everyone is on the same level. There will be several weekly meetings to work on the project together.

General Layout: The color scheme is going to fall within the retro color palette. There will be a search option at the top and a list of genres below the search bar for the user to choose from if they wish.

Possible Datasets:

- [Spotify Million Playlist Dataset Challenge](#) consists of a dataset and evaluation to enable research in music recommendations. The dataset contains 1,000,000 playlists, including playlist titles and track titles, created by users on the *Spotify* platform.
- [Music Recommendation for Spotify](#) for Spotify DS Dataset looks at characteristics of different genres & clusters the genres which helps with recommendations from similarities.
- [Music Genre Classification](#) Dataset classifies the different genres based on factors such as tempo, which can help suggest music.
- [Music Generation](#) Called Muspy this Open Source Python library for Symbolic Music Generation. MusPy provides easy-to-use tools for essential components in a music

generation system, including dataset management, data I/O, data preprocessing and model evaluation. Muspy extracts data from given music and creates new music from it.