

Baseline Results(Group 54)

Music recommendation system with a real time Multilingual content interpreter

Updated Problem formulation:

By providing real-time translations of song lyrics, the proposed application aims to overcome the language barrier. It will not only enhance the understanding of the lyrics but also improve the comprehension of the music and its cultural background. Furthermore, the application's song recommendation system will suggest similar songs based on a user's preferred music genre and language preference. This feature will enable users to discover new music while simultaneously comprehending the lyrics.

The helper.py function in the given code, takes the user input of the song and artist name and

Updated Literature Review:

Existing music recommendation systems, such as spotify, apple music, use user data and machine learning algorithms to suggest new songs based on a user's listening history and preferences. However, these systems do not provide real-time translations of song lyrics, which can hinder the language learning and cultural understanding benefits of listening to music. Studies have shown that listening to music in a foreign language can improve vocabulary and grammar learning (Laitinen and Lehtonen, 2016) and enhance intercultural communication skills (Ren and Li, 2019). The proposed application's real-time multilingual content interpreter has the potential to facilitate language learning and cultural understanding through music. While there are existing tools that provide real-time translations, such as Google Translate and Microsoft Translator, these tools are not specifically designed for song lyrics and do not accurately capture the cultural nuances and poetic language often found in music.

[A Deep Temporal Neural Music Recommendation Model Utilizing Music and User Metadata – link](#)

This analysis looks at a deep neural network model for music recommendation that takes into account both user and music metadata as well as temporal information to provide a recommendation system that offers uniqueness to each user accordingly. The model makes use of a neural network design with a temporal component, enabling it to identify intricate patterns in the data. This allows for further improvement in results as there is a regular identification of user patterns for better recommendations.