DIY Karaoke-Karaoke
Track Generation and Song Recommendation

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ABSTRACT

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Karaoke is a form of interactive entertainment in which people sing along to pre-recorded instrumental backing tracks. Aspiring musicians and amateur singers need background music to practice and present their work. The current pandemic has renewed interest in karaoke with more people trying to make it a hobby. The existing karaoke applications have limited scope i.e., not everything is integrated into one application.

People have to use multiple apps for song recognition, displaying synchronized lyrics, and for generating the karaoke tracks. With an increase in the number of users, there is now a market for holistic applications that can integrate all these functions. Current applications require manual annotations to synchronize lyrics with the music tracks. Whenever a new song or an album is released, the karaoke collection needs to be updated before it can be seen by the users.

In this project, we developed a mobile application that integrates song recognition with karaoke track generation. It also includes two recommender systems that help you stay on top of trends. Using an ML model, the application will also have annotated lyrics automatically synchronized with the song. Hence, the users will have ease of use with applications and developing their hobbies.