Problem Identification

• Problem Statement

 As the audio streaming platform Spotify, I want to give users a filtering option to select songs in their created playlists based on 26 genres, so that I can increase revenue of the service by converting the free users into premium users.

Context

Spotify has free users and premium users for which under the section 'liked songs' allows users to filter songs based on genre. If I can create a good filtering option based on the songs in users playlists to mimic the current mobile filter option for users liked songs, I could potentially convert those free users into paying premium users as they might find the spotify service as desirable.

• Criteria for success

o If the model allows users to filter songs in their created playlists based on 26 genres.

• Scope of solution space

• I will use the kaggle spotify data set of 232,725 tracks in 26 genres to create a model. The model will be trained on this data and use it for testing.

Constraints

 A potential constraint is the lack of a larger number of genres that could be useful in creating a more accurate filter system of songs in users created playlists, but without being too large to be non user friendly.

• Stakeholders

o Spotify executives and investors.

Data sources

- O I will use this kaggle spotify data set of 232,725 tracks in 26 genres. It includes 18 columns of data: genre, acousticness, artist name, danceability, duration_ms, energy, mode, track id, instrumentalness, key, liveliness, loudness, song name, popularity, speechiness, tempo, valence, and time signature.
- https://www.kaggle.com/zaheenhamidani/ultimate-spotify-tracks-db