**Final Project Proposal**

The data sources that will be used in the project are:

1. [Spotify Web API](https://developer.spotify.com/documentation/web-api/) – it requires OAuth 2.0 authorization, hence for a successful request a valid access token is required. The track information identified by a unique Spotify ID can be obtained from this API. Track audio features such as danceability, energy, instrumentalness, and other features will be used for our investigation
2. [YouTube API](https://developers.google.com/youtube/v3/docs) – This API also requires OAuth 2.0 authorization. Using the track name obtained from Spotify, its views, comments, Likes, and other information will be obtained from this API.

Data related to tracks will be downloaded from the Spotify API, which will be correlated to views, likes, comments, duration, and artist names obtained from YouTube using web scrapping. The opinions and duration obtained from YouTube grouped using artists’ names will help us understand artists’ trends. We investigate the correlation of audio features obtained from Spotify to the popularity of songs and artists.