

## DSCI 510 Final Project

- 1) Name of the project and members:
  - a) Predicting song popularity using Spotify's audio features
  - b) Members: William Khuu
- 2) What problem are you trying to solve?
  - a) Can we predict a song's popularity using features such as danceability, energy, valence, tempo, and artist popularity?
- 3) How will you collect data and from where?
  - a) Data will be collected through Spotify Web API
  - b) Collection:
    - i) Select a couple of playlists (i.e. Top 100, Top rap, Top country, New releases, etc.)
    - ii) Use Spotify API to pull audio features for each track
    - iii) Store all data in a dataframe
- 4) What analysis will you do and what visualizations will you create?
  - a) Will clean the data and conduct EDA
  - b) Use feature engineering to decide important ones and visualize them after modeling (TBD what to use)
  - c) Will show scatterplots of audio features vs popularity
  - d) Charts to show average popularity
  - e) Conduct predictive modelling (techniques TBD)