

ANIME MUSIC RECOMMENDER

Recommend anime songs
based on your favorite Spotify song

AVC Project 2022
Simon Zhu



Problem Statement



Recommend anime songs that are like user's input song



Showcase diversity in anime music



Pique interest in anime industry



World domination through anime





Web App Demo

Anime Music Recommender

<input type="text" value="song_name"/>	<input type="text" value="artist"/>	<input type="button" value="Search"/>
--	-------------------------------------	---------------------------------------

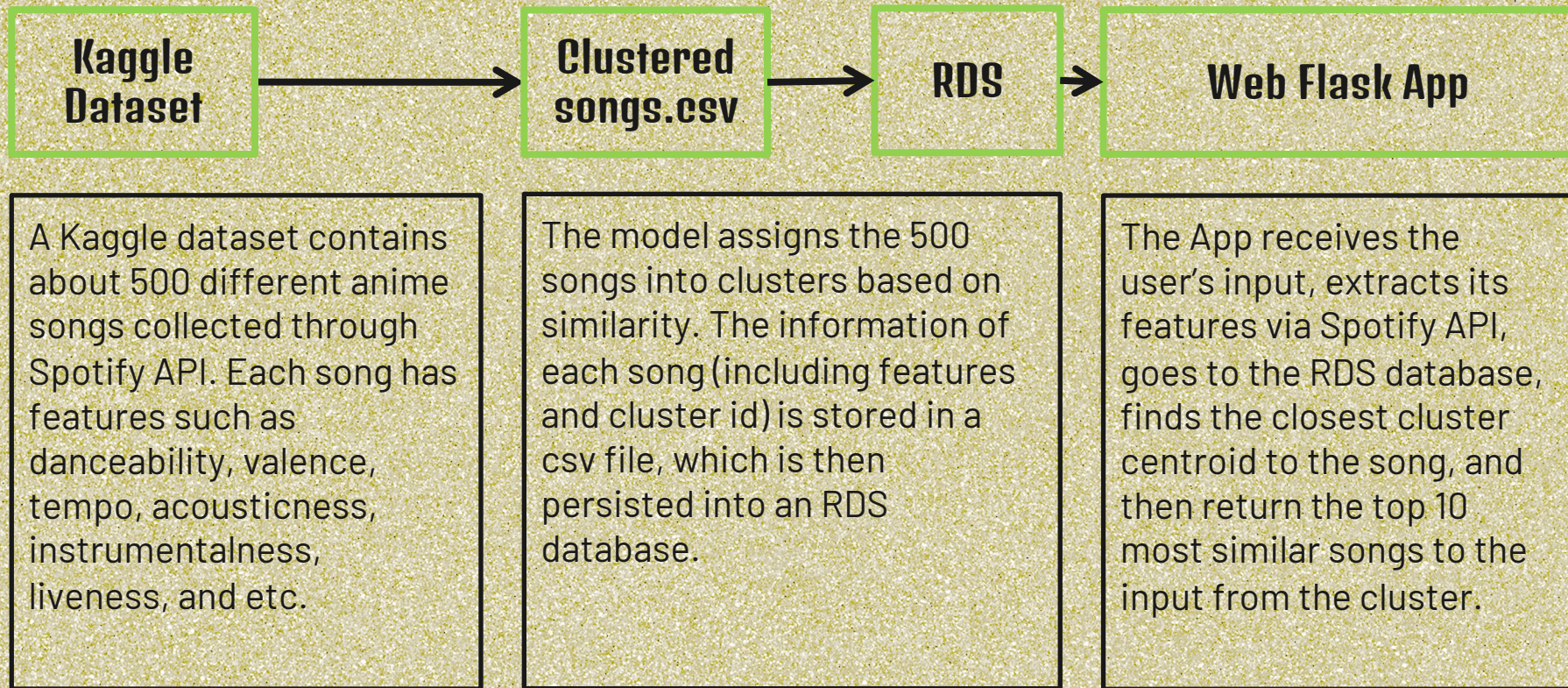
Note that if the table below does not change,
then it means that your search returns no results on Spotify!



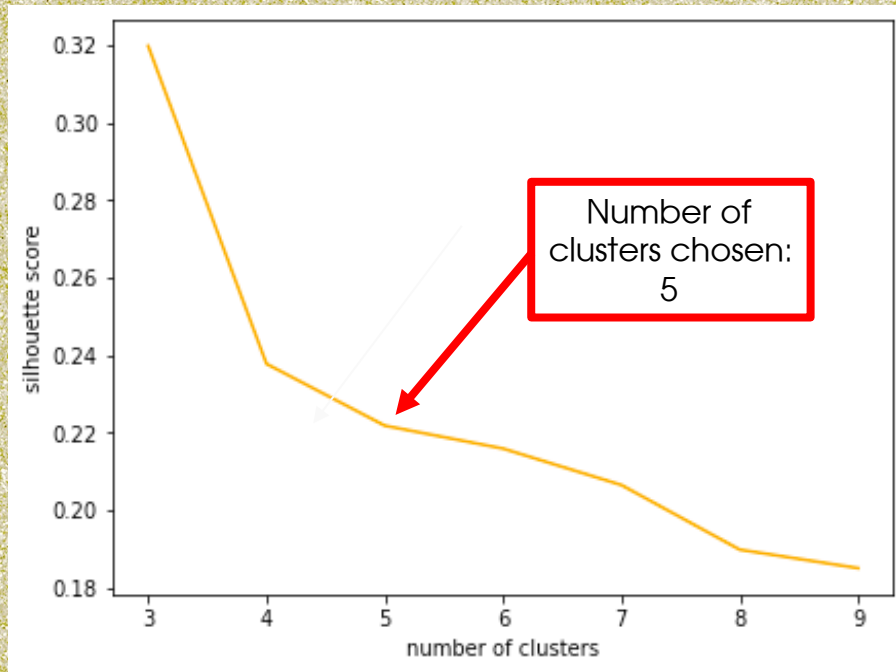
Source: Google



Data + RDS



K-means clustering achieves success



Offline Model

Model output is used for the web app

K-means Model

Assign 500 songs into 5 clusters - a balance

Silhouette Score

Silhouette score of the test_set = 0.32 ≥ 0

Business Success

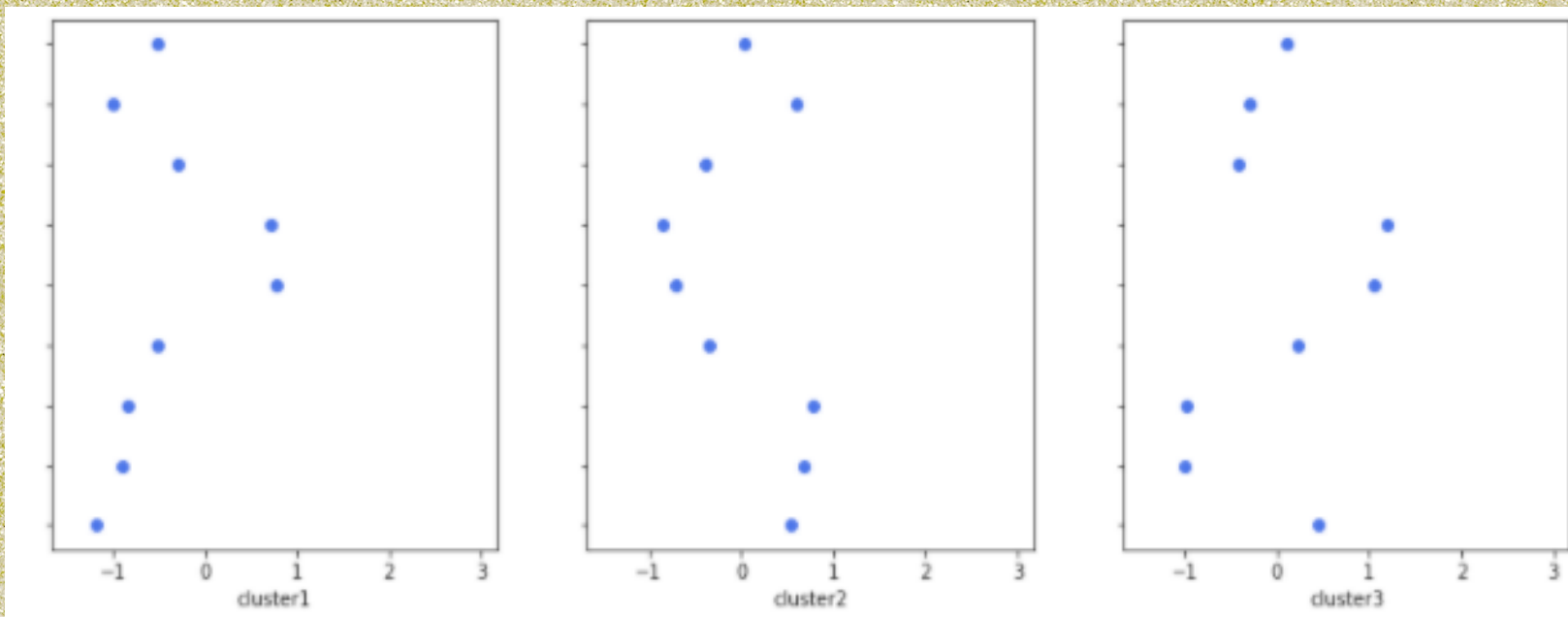
User feedback (rating) and click-through rates



Captures diversity of music, but also has relatively good model performance

Clusters show diversity in anime songs

tempo
valence
liveness
instrumentalness
acousticness
speechiness
loudness
energy
danceability



Instrumental, acoustic,
calming songs

27.3% of all

Energetic, courageous,
fast songs

29.9% of all

Instrumental, acoustic,
groovy songs

20.8% of all

Thank you for listening!

Author: Simon Zhu

Email: mingzhu2022@u.northwestern.edu

LinkedIn: mingzhu97

