SPOTIFY RECOMMENDATION SYSTEM

Springboard Capstone #2
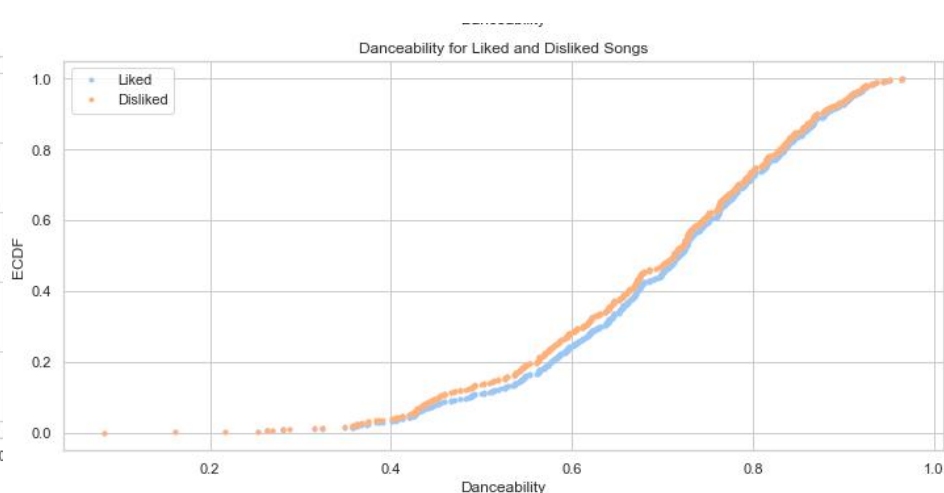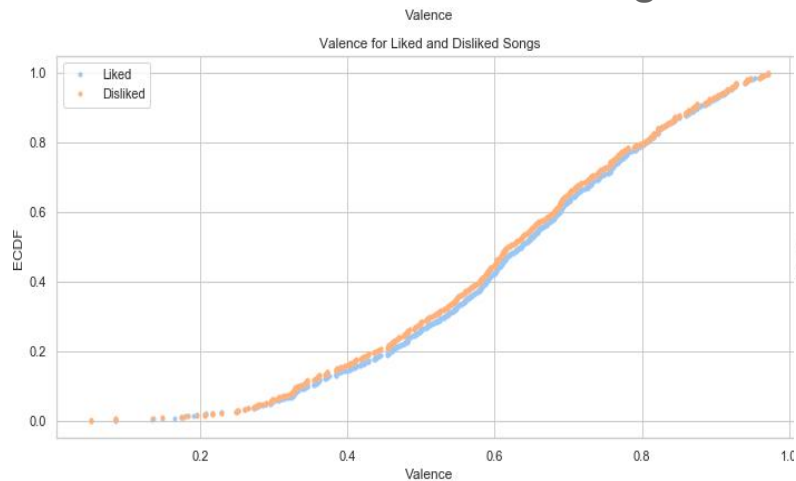Sitara Abraham

BUSINESS PROBLEM

- The act of listening to music is not without its inconveniences
- Finding new, enjoyable songs can be difficult
- Spotify's current recommendation system - Discover Weekly

DATA WRANGLING

- API to create two playlists
  - Liked songs
  - Disliked songs
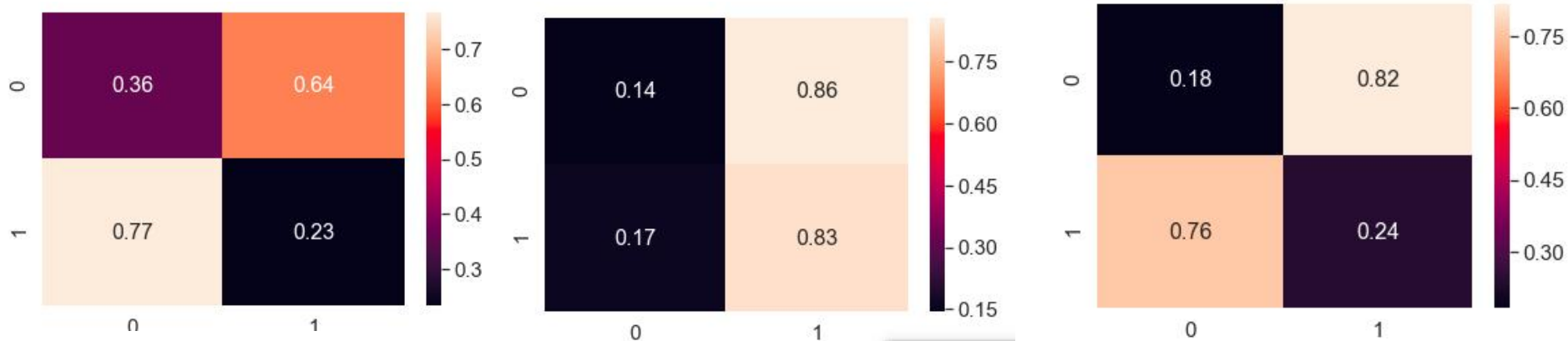- Utilized Python package Spotipy

HYPOTHESIS TESTING

- Hypotheses involved whether there were mean differences in following features:
  - Valence, Tempo, Danceability
- No evidence of statistical significance

MACHINE LEARNING

- Decision Tree, Logistic Regression, K Nearest Neighbors
- Confusion matrices of models before tuning:

- After tuning the models, the accuracy scores were as follows:
  - Decision Tree: 45.2%
  - Logistic Regression: 49.2%
  - K-Nearest Neighbors: 31%