

## CS 225 Fall 2020 Final Project

### Team Members:

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  - **Timezone:** Indochina Time
- Adit Kapoor ([aditk3@illinois.edu](mailto:aditk3@illinois.edu))
  - **Timezone:** Indian Standard Time
- Chirag Gupta ([chiragg4@illinois.edu](mailto:chiragg4@illinois.edu))
  - **Timezone:** Indian Standard Time
- Aliva Panigrahi ([alivabp2@illinois.edu](mailto:alivabp2@illinois.edu))
  - **Timezone:** CST/PT

**Dataset:** [Spotify Dataset 1921-2020, 160k+ Tracks](#)

We all agreed to base our project around this dataset compiled by data scientist Yamac Eren Ay on Kaggle. This dataset contains information on over 160,000 tracks ranging from 1921-2020 on Spotify. Specs from this data set include the following: ID, acousticness, danceability, energy, duration, instrumentalness, valence, popularity, tempo, liveness, loudness, speechiness, year, mode, explicit, key, artists, release date, and name.

**Project Specs:** Users can input a song (given that it is available in the dataset) and expect our program to output a song closest in terms of those characteristics. Additionally can select an artist and expect our program to output a song that is closest in those characteristics.

### Communication:

1. **Team Meetings:** We will meet twice a week, on Thursdays and Sundays, for approximately an hour each to ensure that there is clear communication among group members. Due to the pandemic, all of us are in different locations this semester which is why we have decided to communicate via Discord so we can easily share files, pin ideas, and get on voice channels. Besides this, we have also created a google drive where we can access files easily and take meeting minutes. Given that Aliva (alivabp2) is in the habit of making good notes for her classes, we decided to let her handle the task of taking meeting notes and ensure that everybody is completing tasks on time.

2. **Assistance:** As mentioned above, we will be communicating through Discord. Any help needed will be solved through screen-sharing on discord and should be resolved within 12 hours.
3. **Team Environment & Expression:** We will fix some time for all the members to speak during each meeting Each person can send their ideas to the Discord group chat and we will discuss them in detail during the meetings.

## **Collaboration & Deliverables:**

### **1. Work Distribution:**

- **Code:** Every member will be responsible for different functions or classes. Our code base will be designed ahead of time unanimously (high-level) and jobs will be distributed as such. We all must ensure that our code is bug-free, properly formatted, and does the job it is intended to do.
- **Documentation:** Everyone should contribute to documentation of any functions or pieces of code that they write. Additionally, we must all keep up and complete our development document respectively.
- **Weekly Meetings:** We will have two scheduled group meetings per week in addition to our regular Discord communication. During each meeting, group members should have their deliverables prepared. If they are struggling to complete their part or need help, they should notify the others ahead of time. Each member should be able to detail what they accomplished between meetings, what they hope to accomplish before the next one, and any additional comments/changes/struggles.

**2. Time Commitment:** We expect each team member to dedicate 5-6 hours per week to complete this project. Everyone should put in their best effort and if they cannot commit as much time during a certain week (ie: exam, large workload, etc... ) they should tell the group ahead of time.

**3. Conflict Resolution:** We are all close friends and are not afraid to tell each other to pick up the slack, redesign ideas, etc... If anyone begins to fall behind or cause problems, we will diplomatically resolve the conflict in question. As for general decisions. we will establish a democratic system amongst ourselves for decisions. In the case of any voting conflicts, we will rock-paper-scissor (especially if it's a trivial decision to be made).