

Goals, Environment, Adaptation Worksheet

Agent Name

Helping Lions Cry Since 2021

Goals

Our overall goal is to boost society's overall wellbeing and happiness through music! We will recommend music based on users' preferences and moods. Studies show that one's emotions can be altered with music to a certain extent. Specifically, we hope to:

1. Help users become self-aware by identifying the current mood/emotions they are experiencing
2. Rate and identify the mood/emotions of each song based on user inputs
3. Use music to transform their mood or enhance their current mood, based on their preferences
4. Help users discover new music of a specified mood

It will be adapting to an environment and processing information to classify moods and to provide accurate recommendations that are personalized to the user.

Environment

1. Interactions with users:
 - Moods (communicated through text and emojis)
 - Musical preferences (genres, artists, etc.)
2. Dataset of music we could recommend to the user
3. Library of music from the users' current playlists (sync from Spotify, apple music, etc.)

Important characteristics

1. Lots of genres and various kinds of music existing
2. Music in the world (and the interpretations) is constantly evolving with society & culture
3. The user identification of music genre and moods are subjective
4. Moods can be classified in many different forms, vocabularies, and intensities

Adaptation

1. Update the mood classification of each song based on user feedback/interactions
2. Select new songs to recommend based on those ratings and the user's mood
3. Give the users the option to update their current mood/preferences

Changes to the inner environment

1. Improve the learning of user's music identification and genres because user's tastes may change over time
2. Match recommendations based on other users with preferences, and vice versa (may have some privacy issues here)

By adapting the mood "ratings" of songs and then later recommending songs to other users, the algorithm can influence people's perception of how certain songs fit into society/culture and into their genres.