**MUSIC RECOMMENDATION USING EMOTION RECOGNITION**

**SYNOPSIS:**

Facial expressions play a significant role in our social and emotional lives. They are visually observable, conversational, and interactive signals that clarify our current focus of attention and regulate our interactions with the environment and other persons in our vicinity. They are our direct and naturally preeminent means of communicating emotions. Therefore, automated analyzers of facial expressions seem to have a natural place in various vision systems, including automated tools for behavioral research, lip reading, videoconferencing, face/visual speech synthesis, effective computing, and perceptual man-machine interfaces.

Current research in the field of music psychology has shown that music induces a clear emotional response in its listeners. Musical preferences have been demonstrated to be highly correlated with personality traits and moods.

The purpose of this project is to detect these facial expressions and based on that we will predict the emotions of the person such as happy, sad, angry, neutral. Then the desired songs are mapped to the user’s mood.

Facial expressions can be detected in **Python** using some packages like **pandas, keras** and then the output can be treated as input for **Spotify’s API**, which already contains songs based on the mood of the person.

This program reduces user efforts for choosing playlist by efficiently mapping the user’s emotion to the correct song class.

**GROUP MEMBERS** **REGD. NO.**

1. **Rahul Choudhury   1801227358**
2. **Sayed Aman Konen 1801227460**
3. **Ramiya Ranjan Behera 1801227377**
4. **Simran Mohanty   1801227501**
5. **Shakti Ranjan Debata 1801227464**