AI-Based Mood Music Generator

"Music that understands your emotions"

Prototype Submission

1. INTRODUCTION

- Music is deeply connected to human emotions.
- However, selecting the right song to match our mood can be challenging.
- Our project, the AI-based mood music generator, uses AI to detect a user's emotion through facial expressions or text input.
- It recommends or generates music that resonates with how the user feels.
- By blending emotion recognition with AI, our solution helps users to relax, focus, or uplift their mood with just a click.

2. Problem Statement

- Manual music selection is time consuming.
- Most platforms are not emotionally aware.

- These platforms usually recommend music based on listening history, popularity trends or playlists.
- If someone is feeling low or anxious, they have to manually search for calming or updating music-this breaks the experience.
- There is no automatic, emotion-aware system.

3. Implementation

```
import random
import os
import pygame
mood = input("How are you feeling today? ").lower()
# Mood-to-song mapping
mood to song = {
  "happy": "happy.mp3",
  "sad": "sad.mp3",
  "angry": "angry.mp3",
  "relaxed": "relaxed.mp3"
}
if mood in mood to song:
  song file = f"songs/{mood to song[mood]}"
  song_path = os.path.join(os.getcwd(), song file)
  if os.path.exists(song path):
    print(f"Detected mood: {mood.capitalize()}")
    print("Playing a matching song... \[ \lambda \]")
    pygame.mixer.init()
```

```
pygame.mixer.music.load(song_path)
   pygame.mixer.music.play()
   input("Press Enter to stop music...")
   pygame.mixer.music.stop()
   else:
      print("Song file not found.")
else:
   print("Mood not recognized. Please try again.")
```