Emotion Music AI

A real-time multimodal AI application that uses webcam and microphone input to detect emotions and recommend music via Spotify.
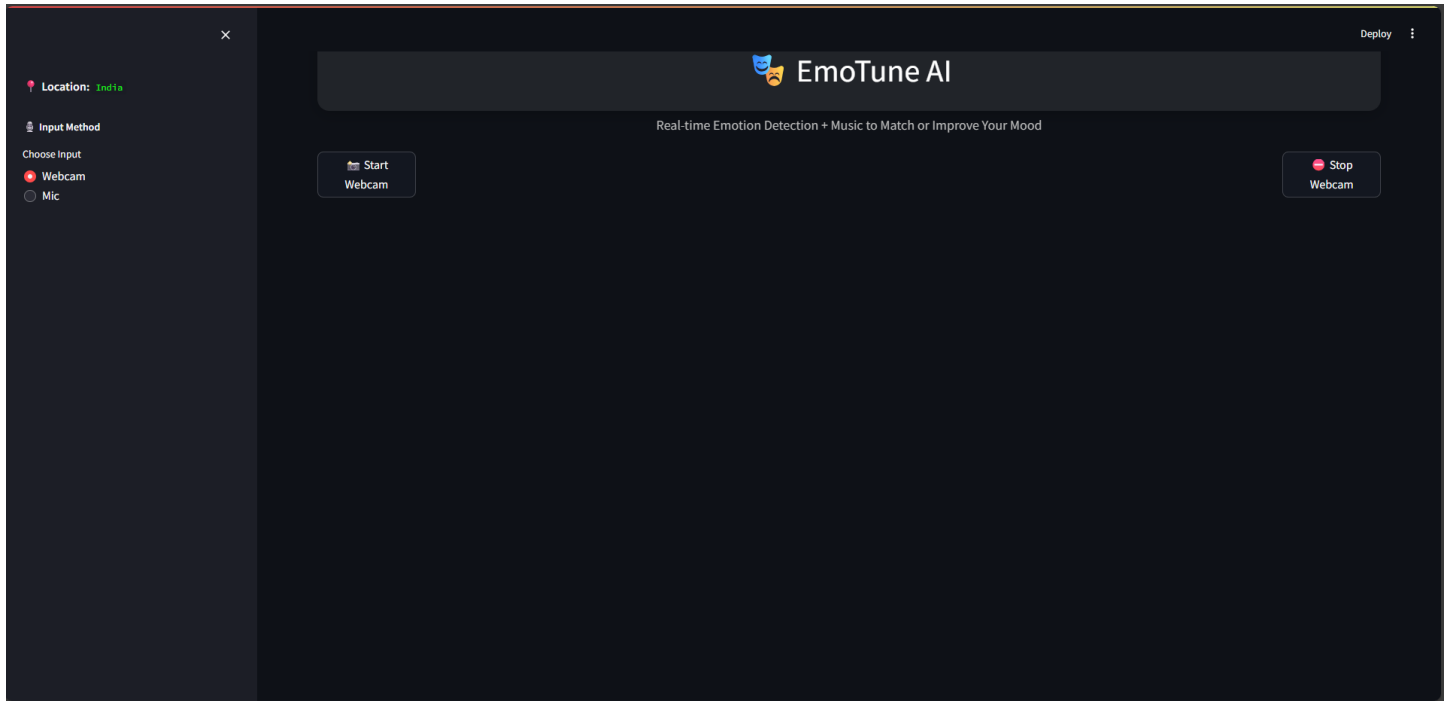
Built with: Python, Streamlit, TensorFlow, OpenCV, scikit-learn, Librosa, and Spotify API.

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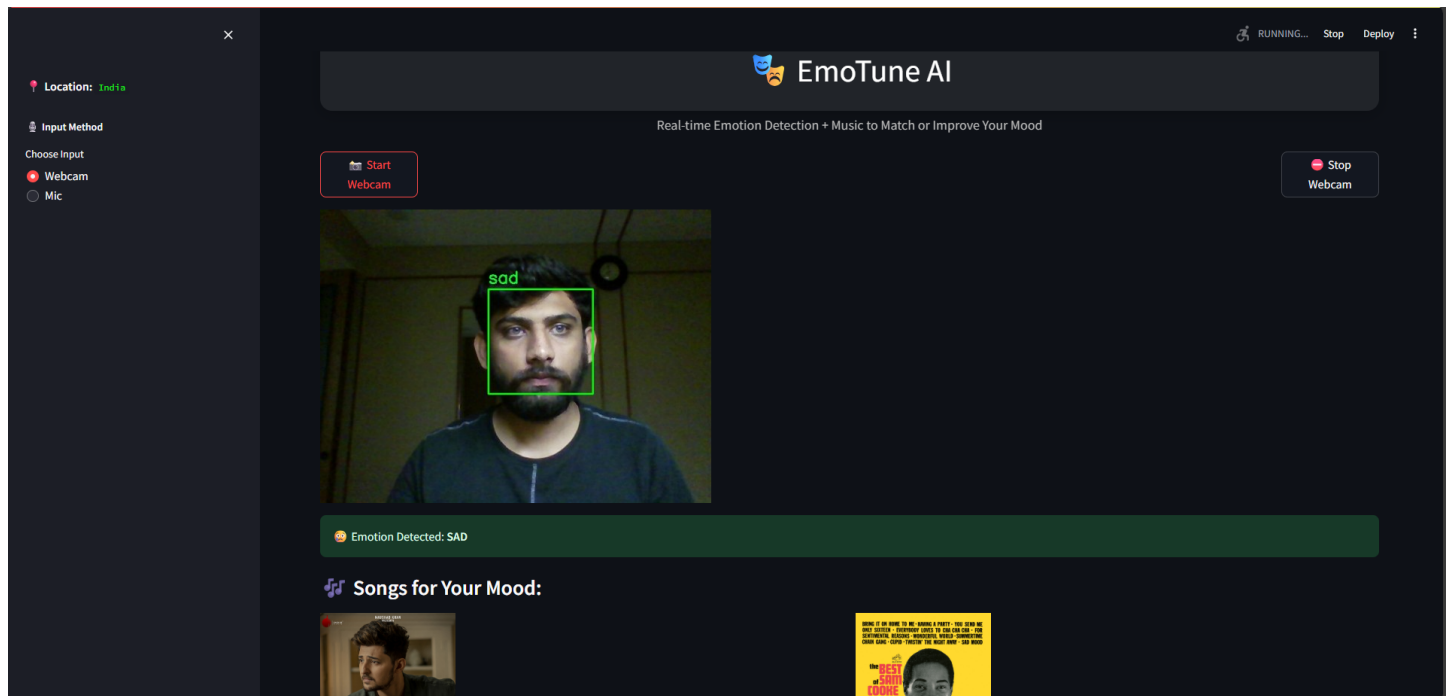# Emotion Music AI - Project Showcase

Main Interface

The homepage allows users to select between Webcam or Microphone for emotion detection. It also detects the users location to personalize song suggestions.

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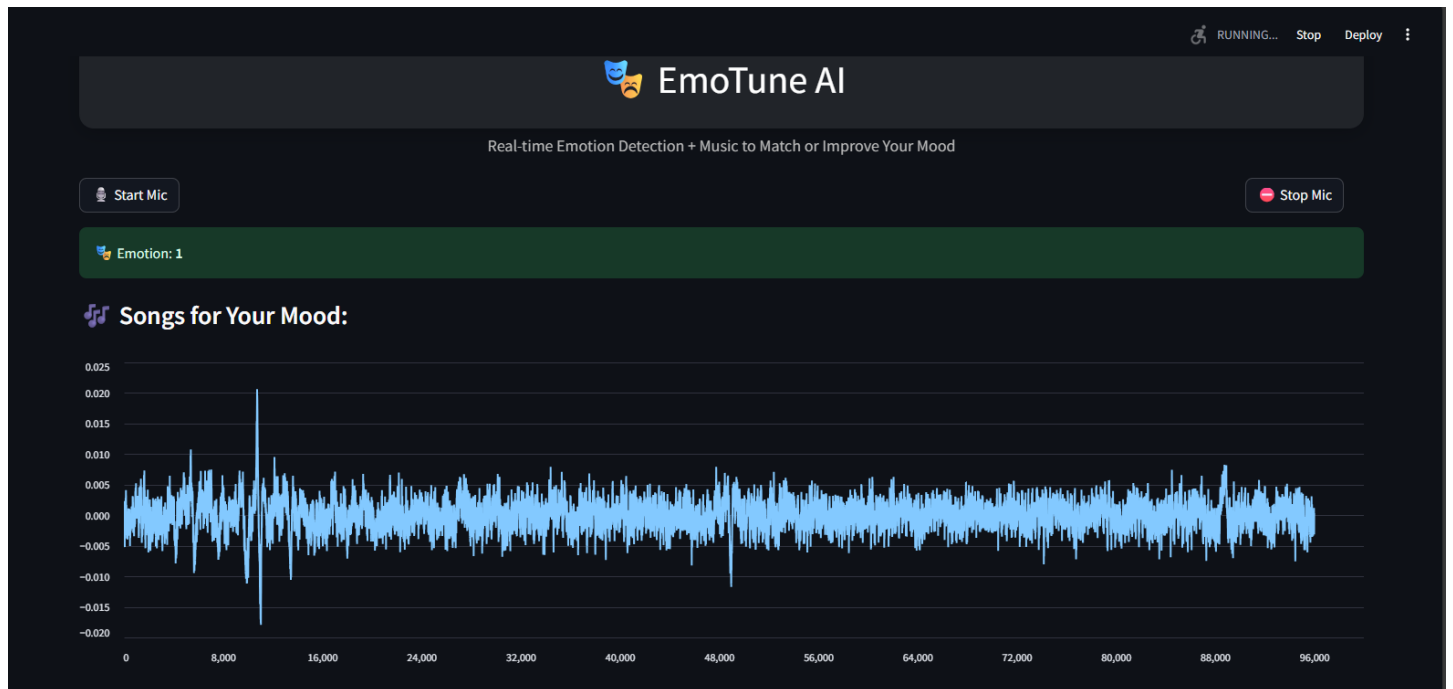
Webcam Emotion Detection + Song Suggestions

The system detects facial expressions using a webcam in real-time and recommends songs that match the detected mood, fetched directly from Spotify.

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Audio Emotion Detection + Song Suggestions

Users can speak into the microphone for a few seconds. The system analyzes their voice tone to predict emotion and recommends suitable songs. It also visualizes the voice waveform.

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Spotify Song Recommendations

Based on the detected emotion, the app displays a curated list of songs with album art, artist names, and links to play them directly on Spotify.