

# ManoRaag

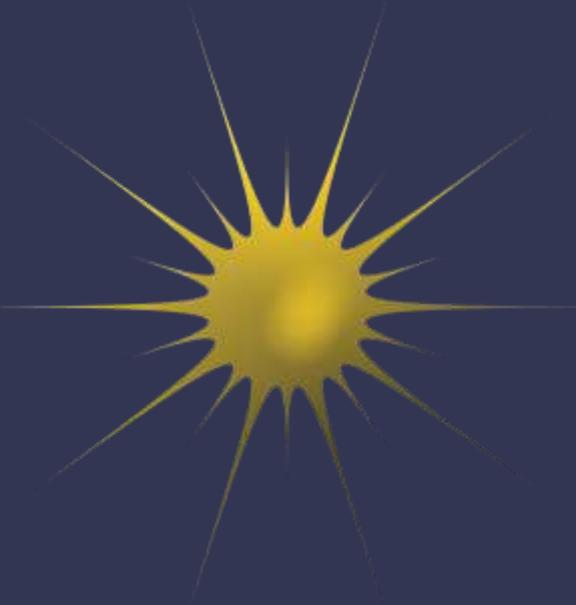
## AI-Based Emotion-Aware Music Recommender System

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**Coordinator :** Pradyumna v



Presented by ManoRaag Team



# Introduction to ManoRaag

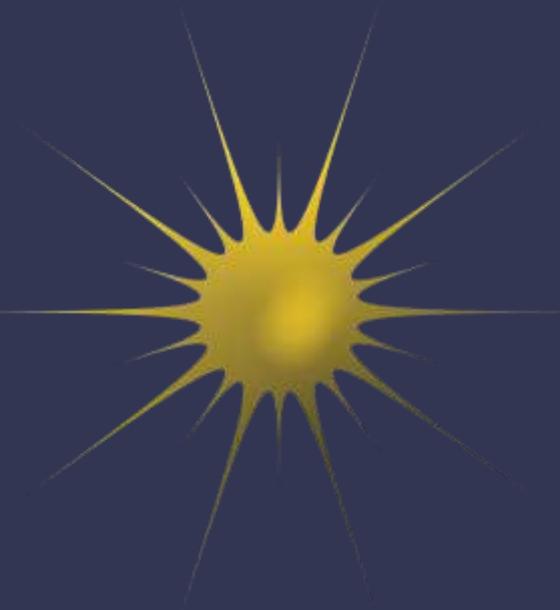
**ManoRaag** bridges the gap between human **emotions** and personalized **music** recommendations, leveraging advanced AI and emotion-detection technology to enhance listening experiences tailored to individual emotional states.



# Problem Statement

Many people face the **frustrating challenge** of finding songs that resonate with their current emotions, leading to missed connections between music and personal experiences.



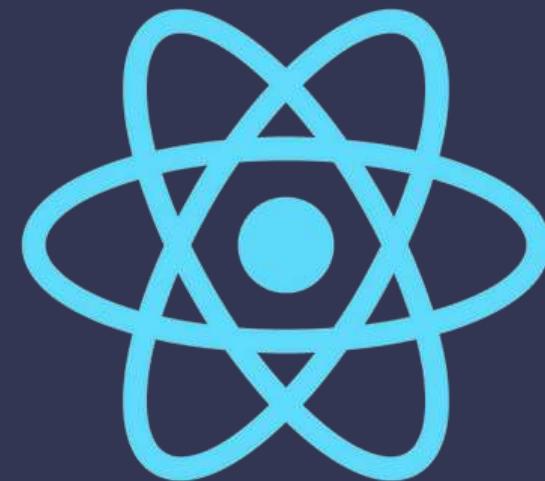


# ManoRaag Solution

ManoRaag utilizes **AI-based emotion detection** to analyze facial expressions and seamlessly recommend YouTube songs that perfectly match the user's current mood, enhancing their listening experience.



# Technology Stack



Reac



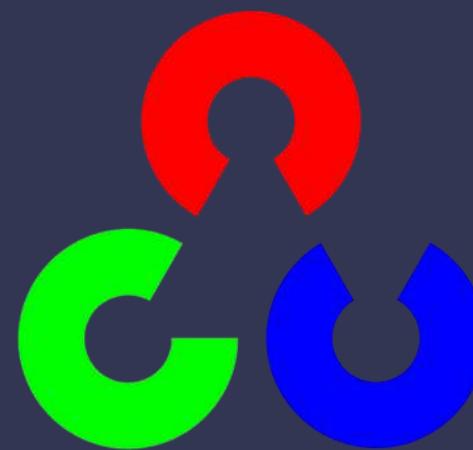
Flask



Firebase



Tensorflow

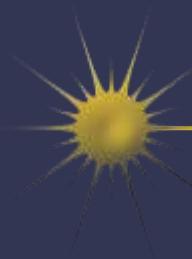


OpenC  
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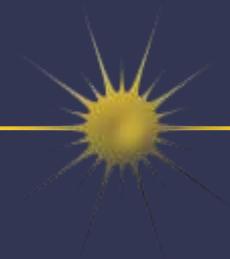
Spotify  
API

# ManoRaag Workflow



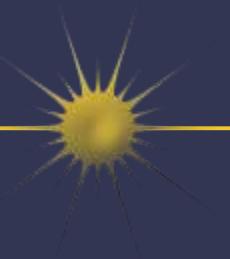
## User Uploads

The user uploads a photo for emotion detection.



## Emotion Detection

AI analyzes the photo to identify the user's emotion.



## Song Recommendation

Spotify API provides songs that match the detected emotion.

# Emotion-Based Playlists



Pop Playlist



Acoustic Playlist



Energetic Tracks



Wonder and Awe Playlist



Metal  
Playlist

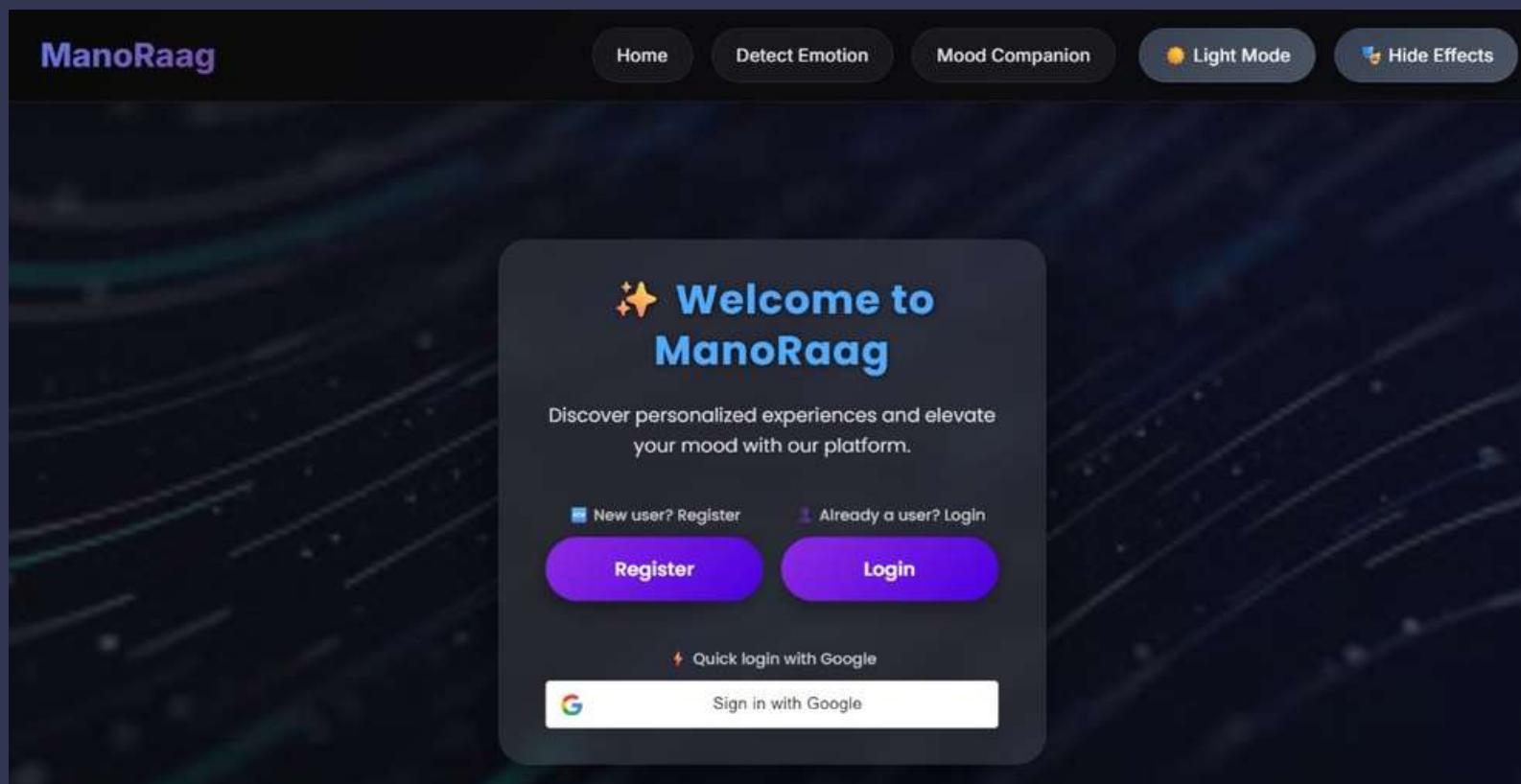


Chill  
Playlist



Ambient Playlist

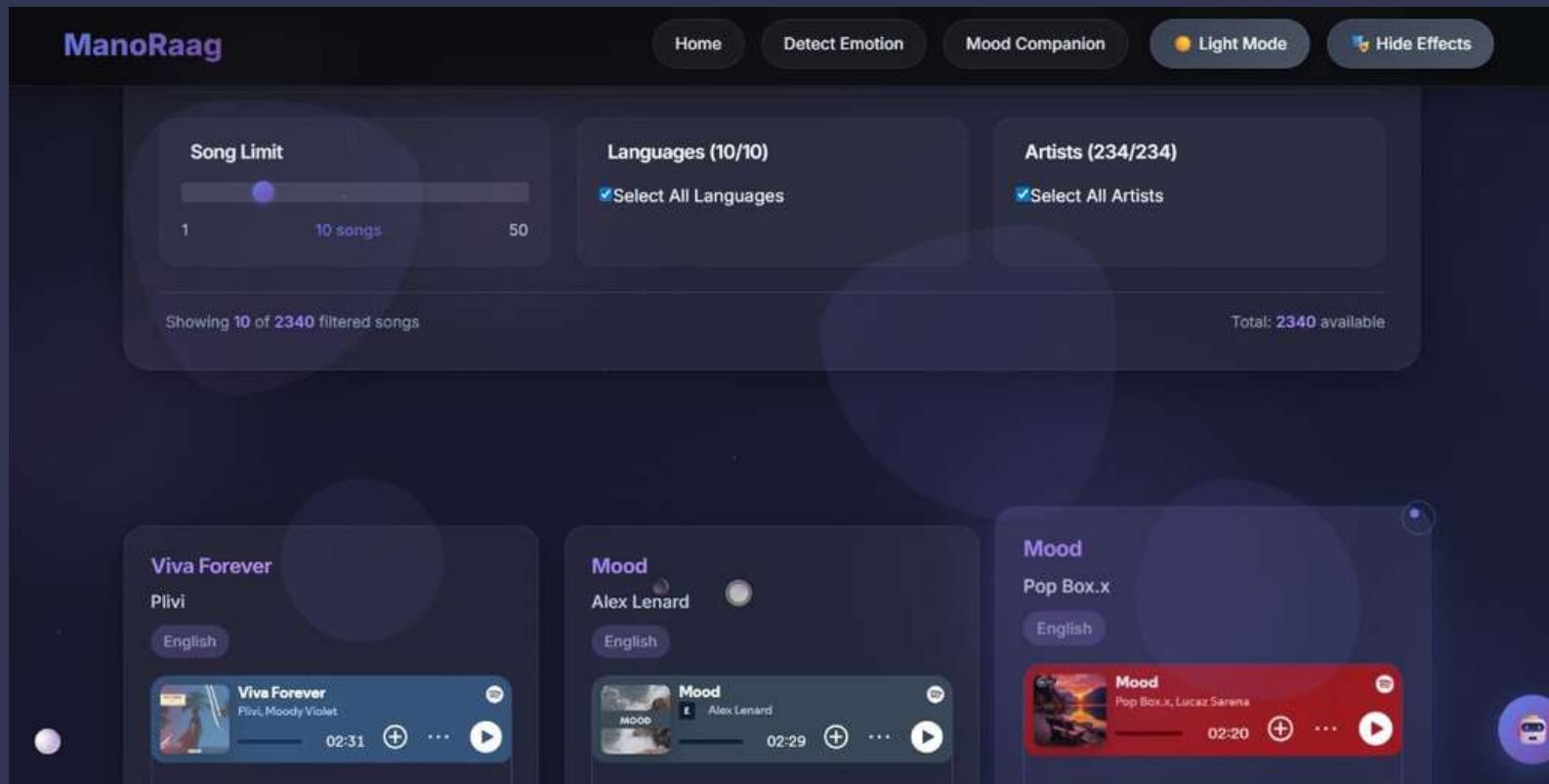
# ManoRaag in Action



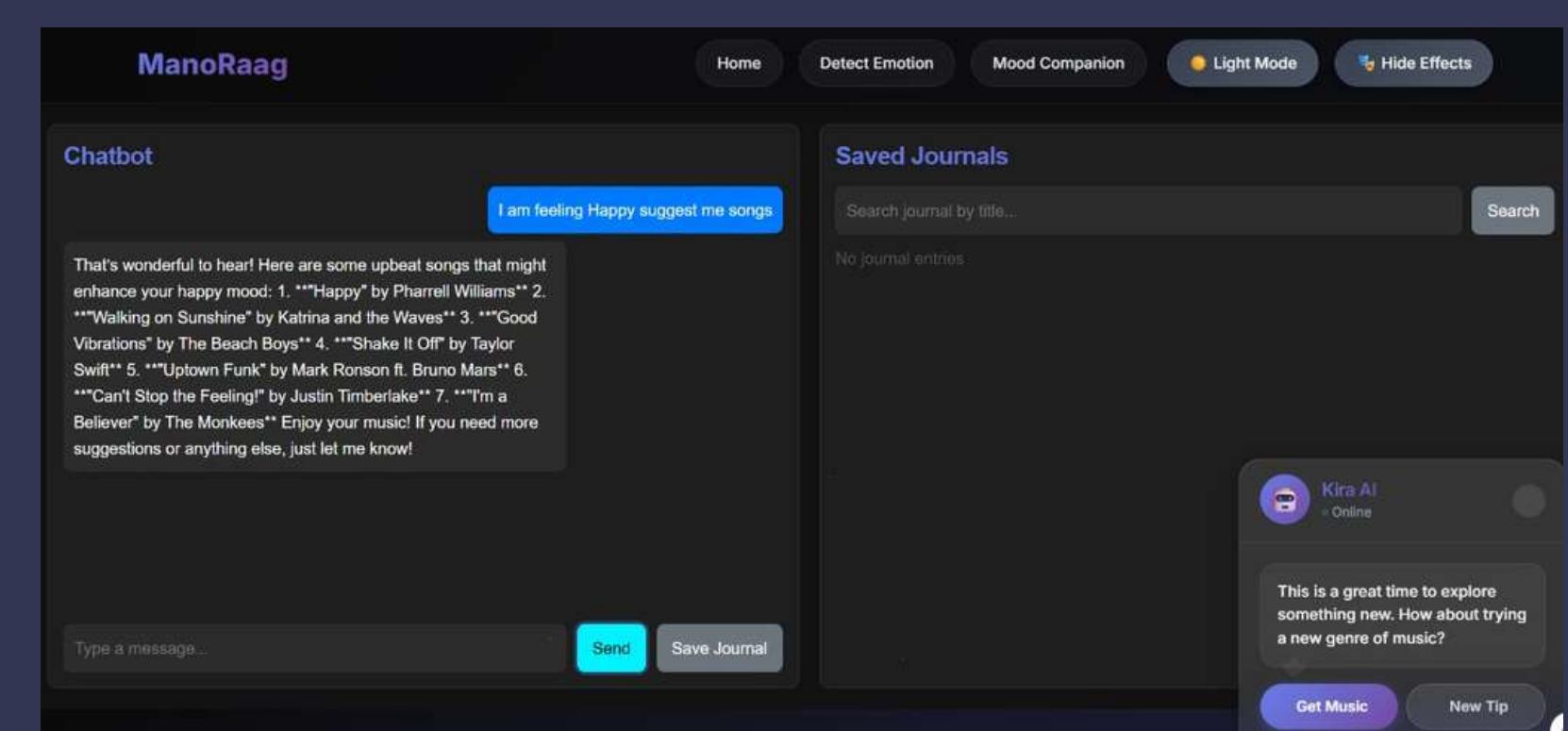
The ManoRaag login screen features a dark background with a subtle geometric pattern. At the top, there's a navigation bar with tabs for Home, Detect Emotion, Mood Companion, Light Mode (which is currently selected), and Hide Effects. A central modal window titled "Welcome to ManoRaag" contains a brief introduction: "Discover personalized experiences and elevate your mood with our platform." It includes registration and login buttons ("Register", "Login"), a "Quick login with Google" button, and a "Sign in with Google" button.



The ManoRaag AI-powered music recommendations screen has a dark theme with large circular graphics. The main heading is "ManoRaag: Music That Feels You". Below it, a callout says "Experience AI-powered music recommendations based on your mood". There are buttons for "Upload Image" and "Use Webcam". A section for uploading images includes a placeholder "Click to Upload Image" and notes about supported file types: "Supports: JPG, PNG, GIF (Max 10MB)". On the right, a chatbot window for "Kira AI" is active, displaying a message: "Hi! I'm Kira. Let's find some music for your mood today." and a "New Tip" button. At the bottom, there's a "Browse Files (Backup)" button.



The ManoRaag search and playback screen shows various filtering options: "Song Limit" (set to 10 songs), "Languages (10/10)" (with a "Select All Languages" checkbox), and "Artists (234/234)" (with a "Select All Artists" checkbox). It displays "Showing 10 of 2340 filtered songs" and a total of "2340 available". Below this, there are three song cards: "Viva Forever" by Pivi, "Mood" by Alex Lenard, and "Mood" by Pop Box.x. Each card includes a play button and other controls.



The ManoRaag Chatbot and Saved Journals screen features a "Chatbot" section where a user asks "I am feeling Happy suggest me songs". The bot responds with a list of songs: "That's wonderful to hear! Here are some upbeat songs that might enhance your happy mood: 1. \*\*\*Happy\*\*\* by Pharrell Williams\*\* 2. \*\*\*Walking on Sunshine\*\*\* by Katrina and the Waves\*\* 3. \*\*\*Good Vibrations\*\*\* by The Beach Boys\*\* 4. \*\*\*Shake It Off\*\*\* by Taylor Swift\*\* 5. \*\*\*Uptown Funk\*\*\* by Mark Ronson ft. Bruno Mars\*\* 6. \*\*\*Can't Stop the Feeling!\*\*\* by Justin Timberlake\*\* 7. \*\*\*I'm a Believer\*\*\* by The Monkees\*\* Enjoy your music! If you need more suggestions or anything else, just let me know!" Below this is a "Saved Journals" section with a search bar and a message from "Kira AI": "This is a great time to explore something new. How about trying a new genre of music?". Buttons for "Get Music" and "New Tip" are also present.

# Future Scope

Multi-Model Emotion Detection

Personalized Emotion Profiles

Mental Health & Wellbeing

Cross-Industry Expansion

Social & Community Features





# Thank you!

