Team 7
MoodSync

Mood-Based Recommendations through Facial Recognition

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Our Project

MoodSync

- Enhancing mood through calming visuals, relaxing physical activities and curated music.

- Offers guided breathing exercise for relaxation and sleep assistance with soothing music to enhance sleep quality.

- Mood detection based ML model using DeepFace library and OpenCV.

Mood detection ML model

- We used OpenCV for real-time face detection with Haar Cascade and DeepFace, a CNN trained on large datasets, to analyze facial expressions and predict emotional states like stress or happiness.

- We enhanced the DeepFace model by adding facial feature-based rules, like Eye Aspect Ratio (EAR), distance between eyes and eyebrows, and Mouth Aspect Ratio (MAR).

- Colors influence mood and behavior by evoking psychological and physiological responses.

- For example, blue calms sadness, purple eases stress, yellow boosts happiness, and green fosters balance.
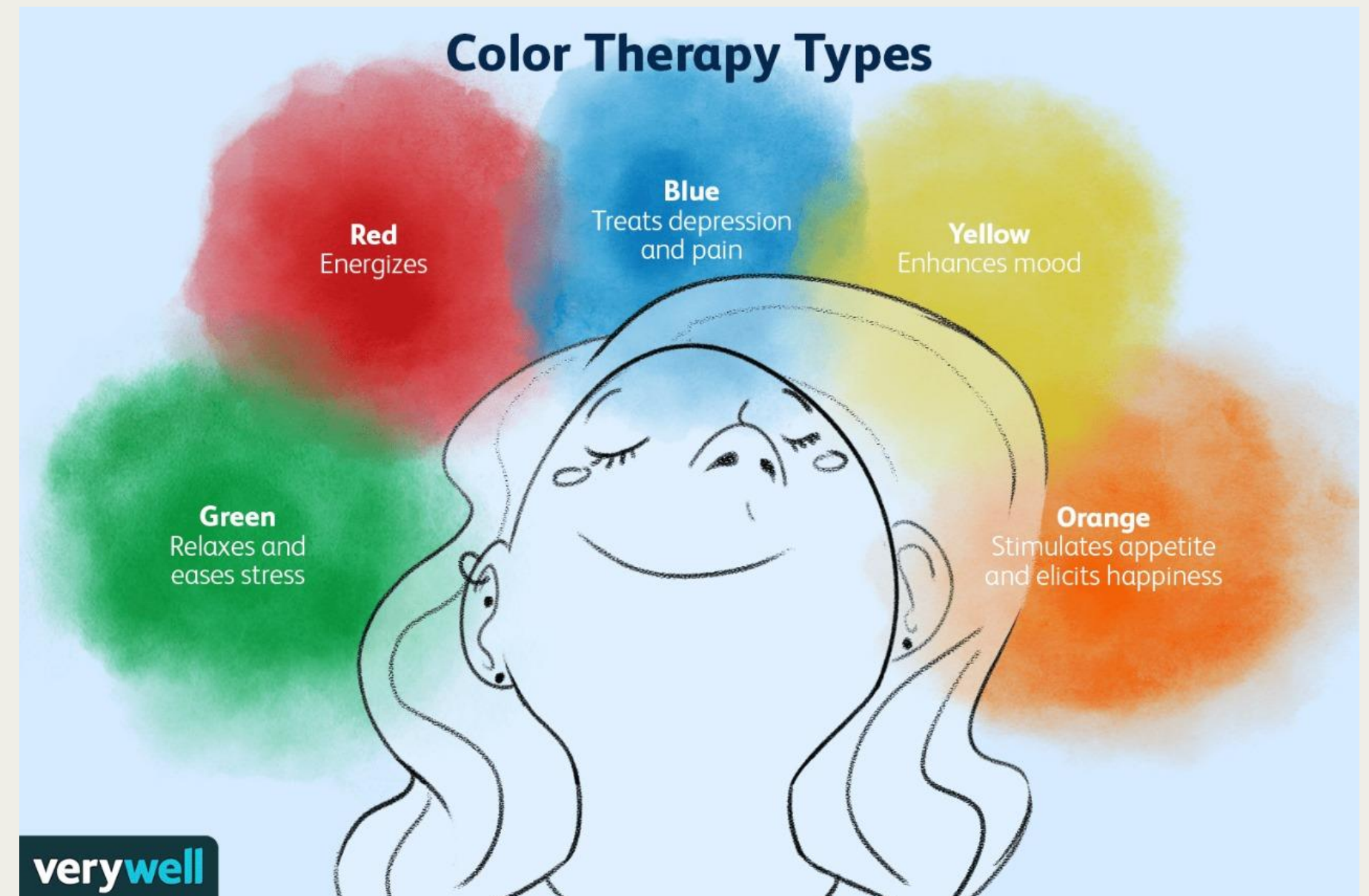
- Our playlist follows the Iso Principle, starting with music that matches the current mood and gradually transitioning to music that reflects the desired mood.

- Music is personal and shaped by culture and experiences. So, we have displayed a QR code that links to a Spotify playlist, allowing users to add their own choices.

Yoga

- Yoga enhances mood by promoting emotional well-being through targeted poses and mindful breathing.

- Heart-openers like Ustrasana boost energy for sadness, while grounding poses like Balasana calm both sadness and stress by relaxing the nervous system. Inversions like Viparita Karani ease stress by improving blood flow and promoting relaxation.

Future scope

MoodSync

- We aim to expand the scope of our project to seamlessly integrate with smart home systems.

- This integration would enable functionalities such as adjusting light colors, controlling the music system, and combining these features to support activities like yoga or meditation.

- Our MoodSync system is designed to be a dedicated solution, ensuring uninterrupted and reliable operation

Thank you!

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