

EmoSync: Generative Artificial Intelligence Therapist

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Motivation

Mental health support is often inaccessible, expensive, and stigmatized. Our AI-powered platform reimagines therapy as a universally accessible resource, breaking down barriers to care.

- Universal Access -

Therapy without limits—no waitlists, no high costs, no geographic restrictions. With just an internet connection, anyone can access personalized mental health support, anytime, anywhere.

- Hyper-Personalized AI -

Our virtual therapist evolves with you. Customize its personality, voice, and appearance to create a truly tailored therapeutic experience that feels uniquely yours.

- Technology with Compassion -

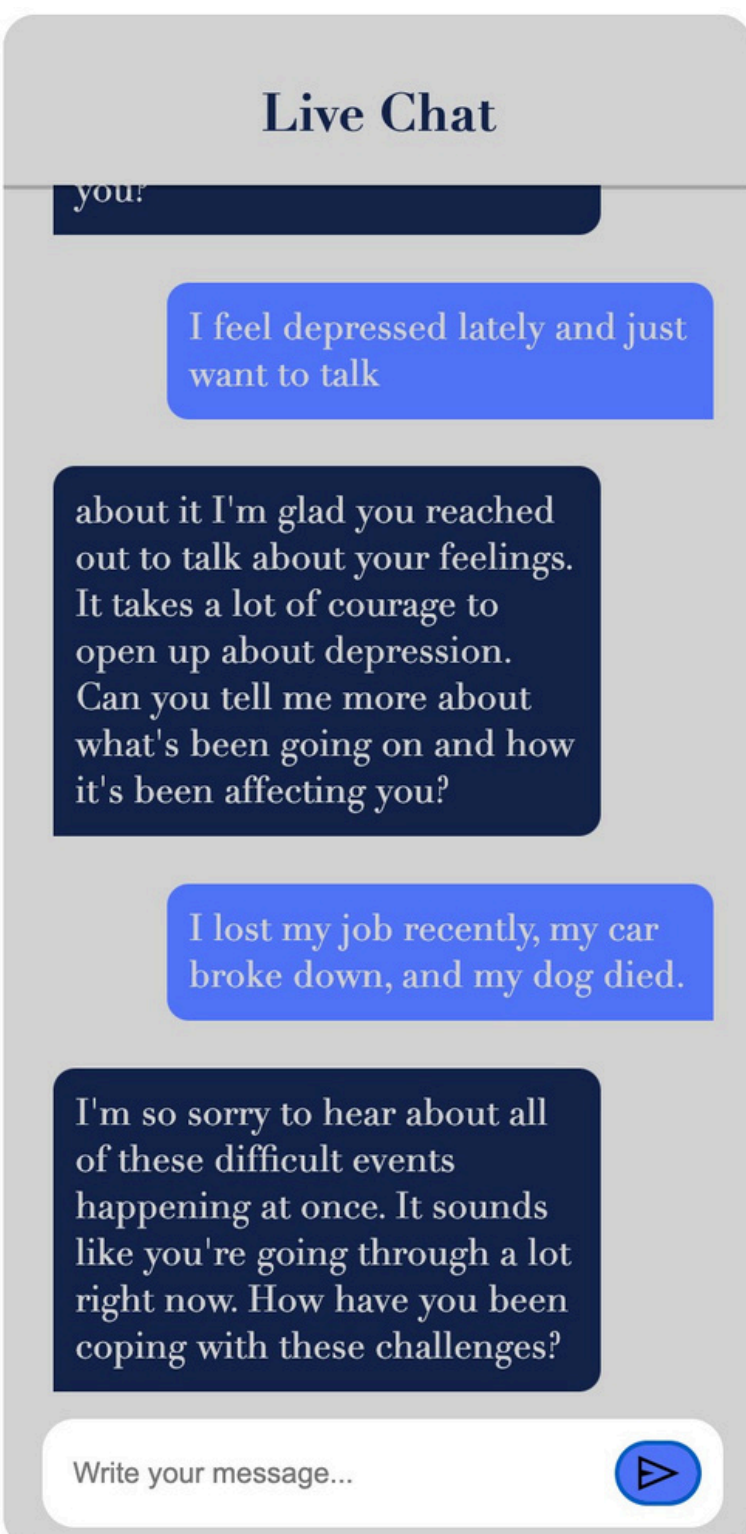
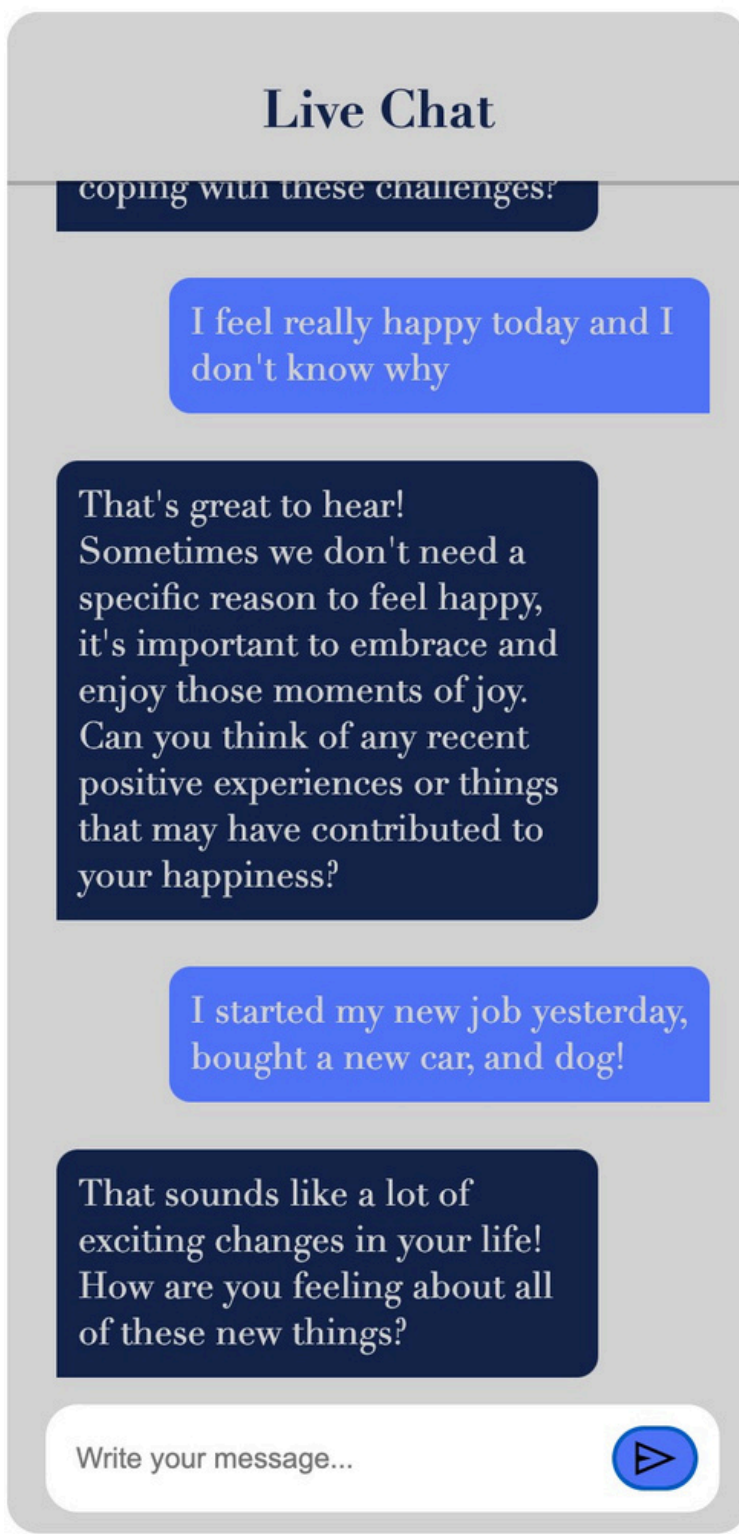
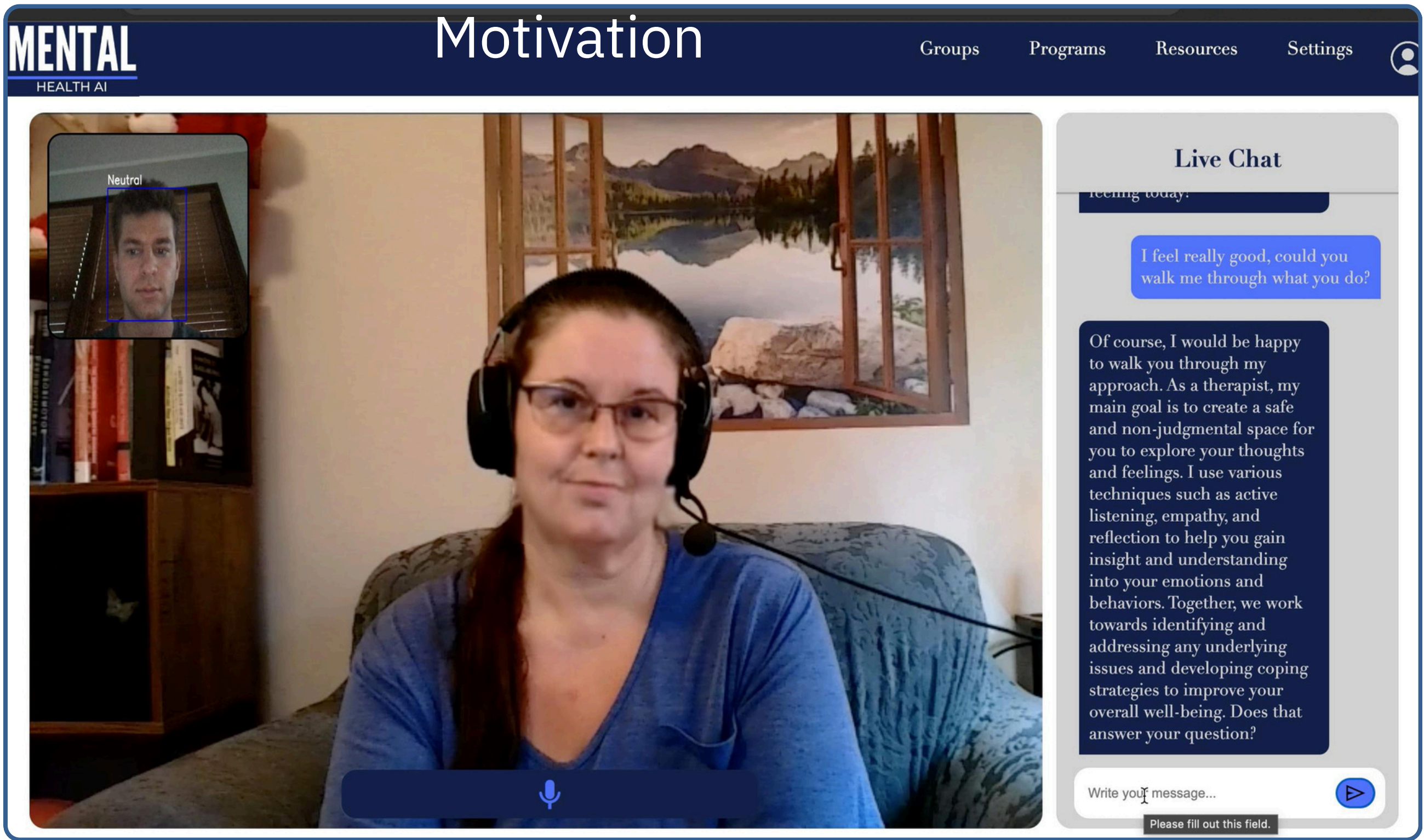
By integrating advanced language models, emotion detection, and adaptive AI, we’re creating more than just a tool. It’s a scalable, empathetic support system designed to address global mental health needs.

System Overview

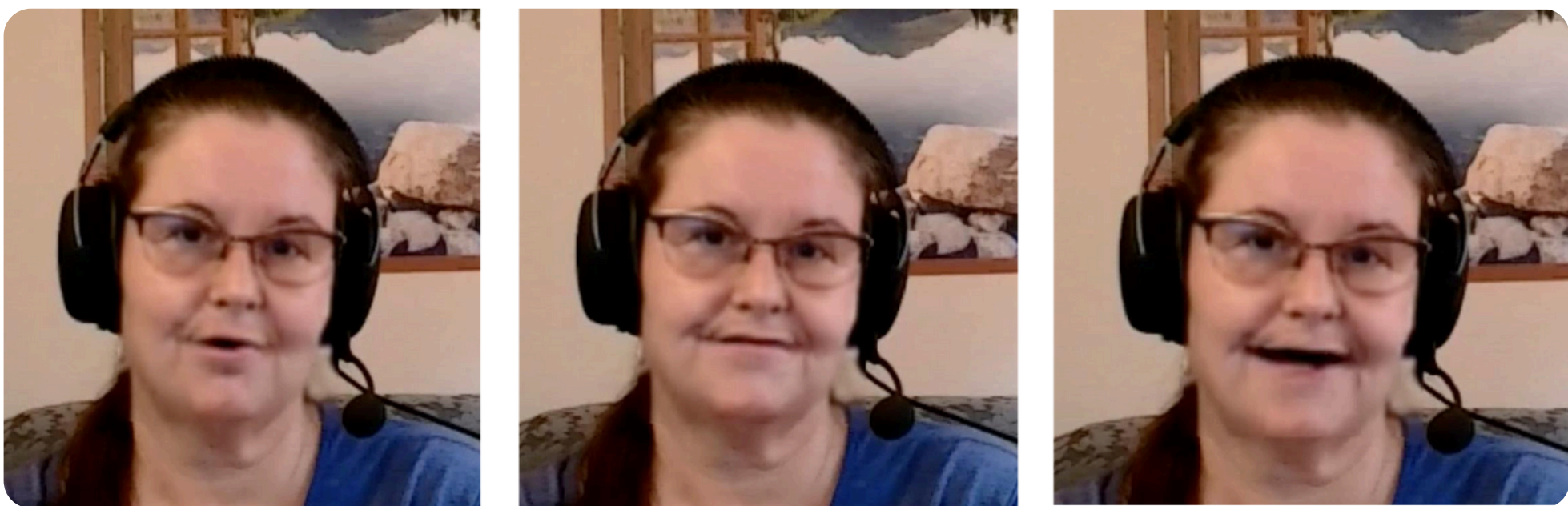
Core Components

- **Language Model:** Utilizes OpenAI GPT as the primary LLM for generating adaptive, context-aware responses.
- **Emotion Detection:** Employs OpenCV's cascade classifier for real-time emotion analysis from user facial expressions.
- **Voice Synthesis:** Integrates Deepgram API for natural, expressive speech synthesis.
- **Visual Rendering:** Leverages GOOEY.AI to produce lip-synced video outputs of a virtual therapist.
- **Datasets:** Incorporates open-source therapy conversation datasets from Hugging Face for fine-tuning prompts and ensuring contextually relevant responses.

EmoSync Interface



Future Improvements



- Enhanced Personalization -

Enable therapist avatar customization with nuanced cultural, gender, and personal preferences, such as ethnicity, accent, and visual representation.

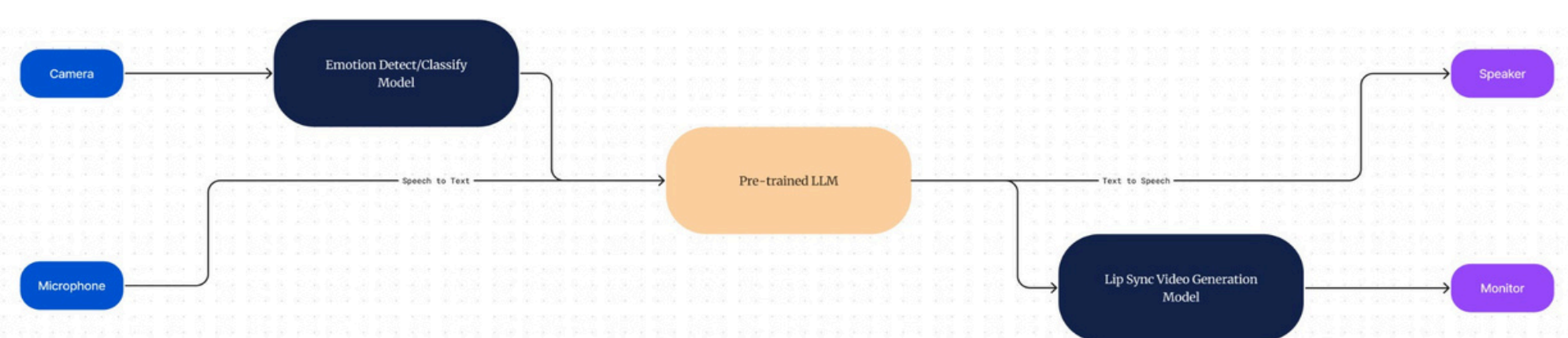
- Scalability -

Leverage cloud-based distributed computing and edge technologies to reduce inference time for real-time interactions. Integrate larger and more diverse datasets to improve response adaptability and platform intelligence.

- Mobile Application Development -

Build a cross-platform mobile app that replicates and enhances the web platform’s functionality, offering location-aware and culturally sensitive mental health support.

Architecture Flow



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