



CHHATRAPATI SHIVAJI MAHARAJ INSTITUTE OF TECHNOLOGY

Affiliated to University of Mumbai, B++ NAAC accreditation



CODE: AUTOMATA

VER. 2.1

TEAM DETAILS

- **Problem Statement:** Build an AI system that detects emotion from text/voice and suggests wellness activities.
- **PS No.:** AI-4
- **College Name:** Shree L. R. Tiwari College of Engineering
- **Team Name:** The Embedables
- **Team Members:**
 - Bhoomi Maurya
 - Arya Mayekar
 - Moresh Mishra
 - Anshkumar Mishra

IDEA APPROACH

Key Problem

- In the fast paced world, the mental health of people are getting left behind.
- Emotional distress is often **unrecognized until escalation**.
- Currently there is a lack of real time emotional monitoring.
- Available mental health support is **reactive**, but not **proactive**.

Approach:

- Perception → Inference → Intervention → Learning
Owing to that pipeline:
 - Multimodal feature extraction (**text embeddings + acoustic features**)
 - **Transformer**-based emotion classification
 - Personalized activity recommendation engine
 - **Feedback-driven** adaptation loop

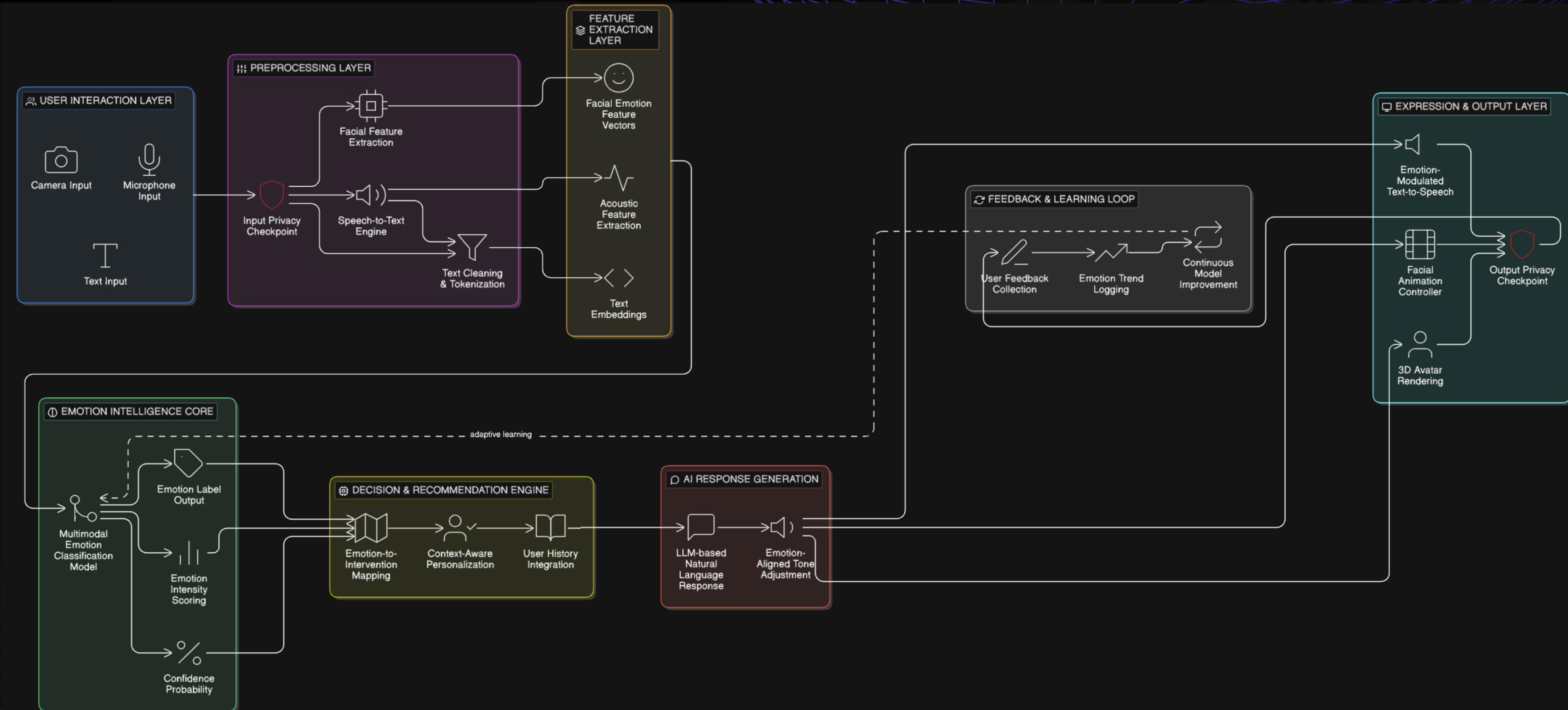
Key Solution: सित्रMind

- User provides input via **text** or **voice**
- AI processes **linguistic** and **acoustic** features to infer emotional state
- Emotion classification drives **personalized** wellness intervention
- **3D avatar** delivers response using expressive speech and facial cues

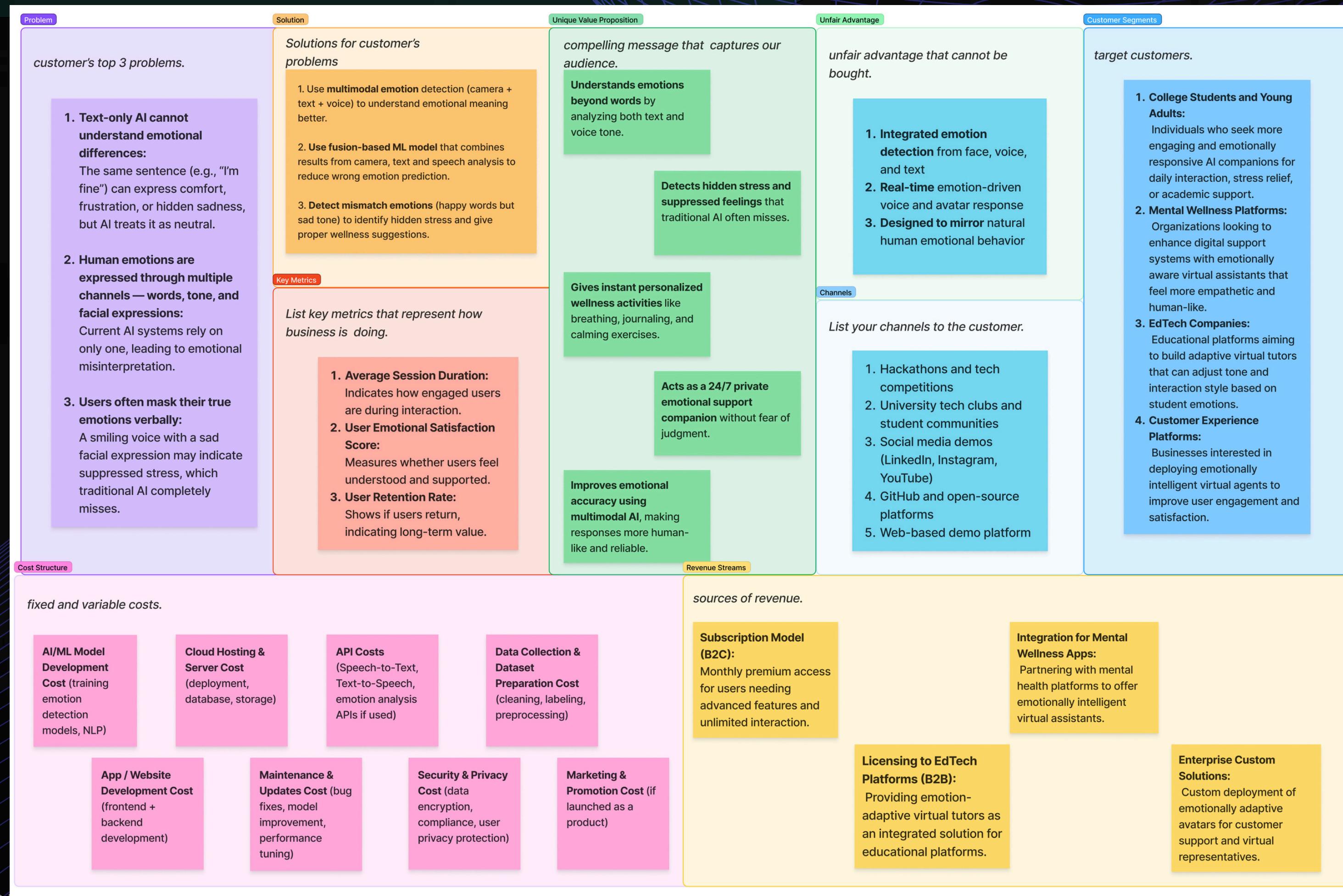
Unique Factor:

- Combines LLM + **Generative AI** + **3D avatar**
- Emotion-based facial expressions
- **Real-time** supportive interaction
- Multimodal Interaction
- **Mood Tracking & Pattern Analysis**

ARCHITECTURE/FLOWCHART



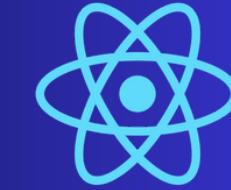
USE CASES / BUSINESS CANVAS



TECHNOLOGY USED



User Interaction
React.JS



Speech-to text
Backend



Emotion Engine
AI interface



Well being plan
Feedback



User Workflow

Dashboard Layout

