

Gen AI Exchange Hackathon

Team Name : AI Avengers

Team Leader Name : Lalit verma

Problem Statement : Generative AI for Youth Mental Wellness

Brief about the prototype:

- The Problem:** Mental health remains a significant societal taboo in India, creating a formidable barrier for young adults and students.
- Our Solution:** Mindful is an AI-powered, empathetic, and confidential mental wellness solution that helps youth overcome stigma and access support.
- Prototype Overview:** We have a working prototype demonstrating the core features of our AI companion. It showcases a seamless conversation flow, a daily mood check-in, and a guided breathing exercise.
- Live Demo:** We will now demonstrate the prototype's key functionalities to show how Mindful provides immediate support.
- Visuals:** Use a simple, modern illustration of a phone screen with a friendly AI chatbot icon.

Opportunity should be able to explain the following:

- **How is it different?** Unlike other solutions, Mindful is designed specifically for the unique cultural context of Indian youth. It's a comprehensive platform, not just a simple Q&A bot.
- **How it solves the problem?** It addresses the core issues of **accessibility** and **stigma** by offering an anonymous, 24/7, and free-to-use platform.
- **USP of the proposed solution:**
- **Culturally Contextual:** It understands local pressures and can communicate in languages like Hinglish.
- **AI + Human Safety Net:** It acts as a smart triage system, seamlessly escalating to human help in a crisis.

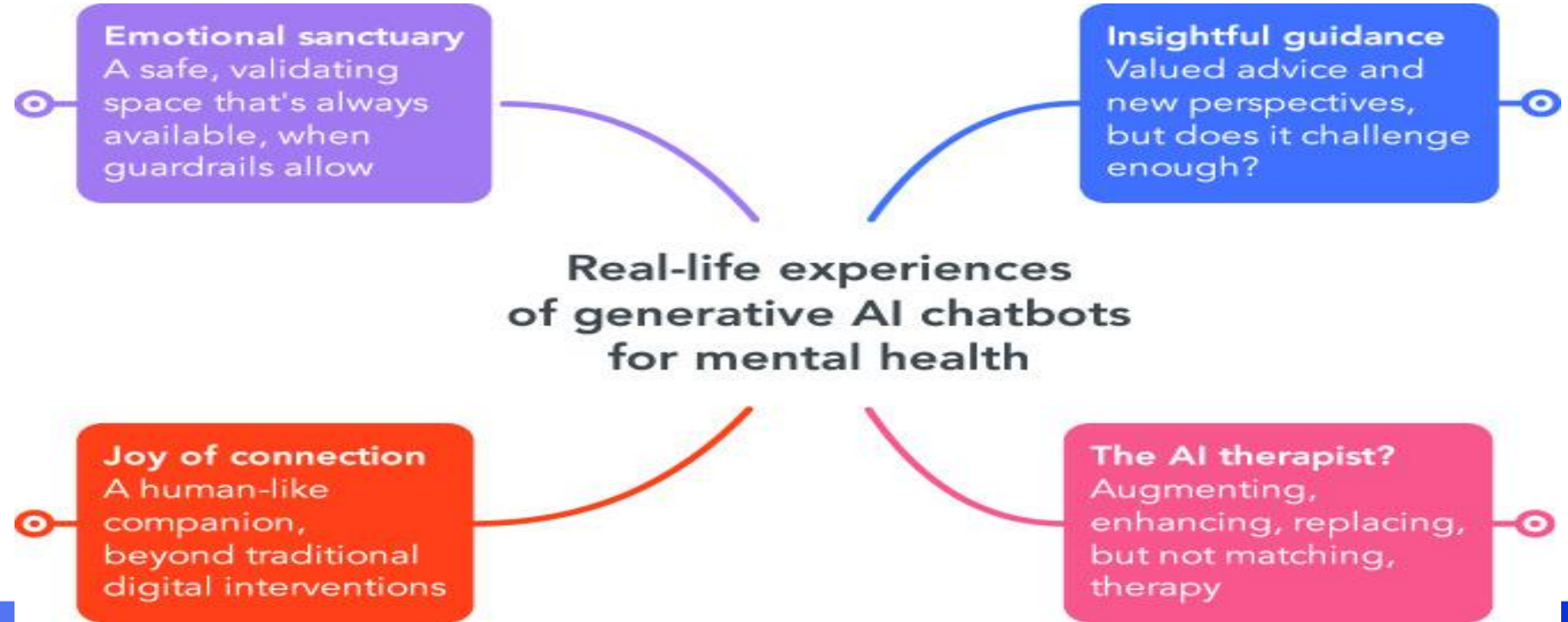
List of features offered by the solution :

- **Empathetic AI Chatbot:** An anonymous conversational partner for emotional support.
- **Daily Mood Check-in:** Personalized insights and coping tips based on mood logging.
- **Guided Modules:** Self-help exercises for breathing, journaling, and mindfulness.
- **Crisis Detection:** AI-powered system that identifies distress and connects users to professional helplines.
- **Low-Bandwidth Access:** Built for both web and mobile, with future plans for SMS/IVR.
- **Visuals:** Use a grid of five simple icons: a chat bubble, a calendar, a meditating person, a rescue cross, and a mobile phone icon.

Process flow diagram or Use-case diagram :

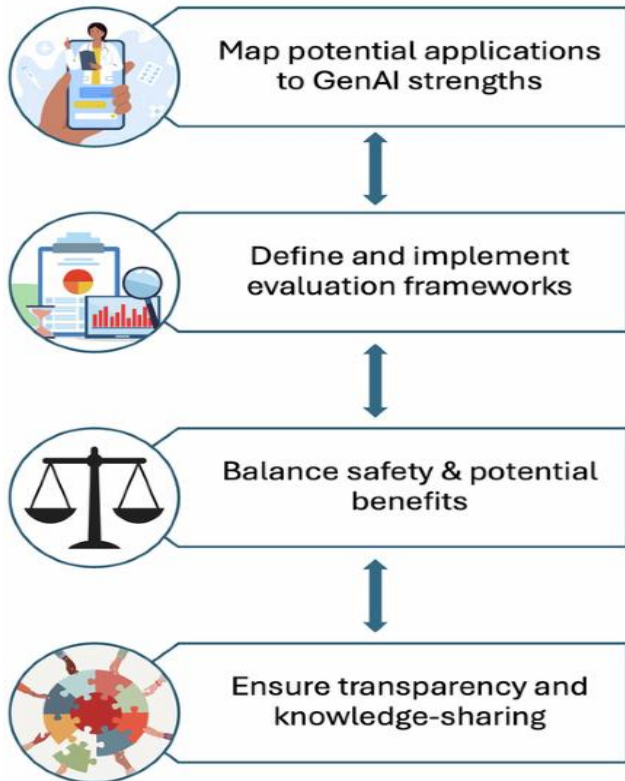
•A simple diagram showing the user's interaction flow:

- 1.**User feels stressed/anxious** (trigger event)
- 2.**User opens Mindful App**
- 3.**Chatbot Interaction:** User types a message → AI (Vertex AI) processes it → AI responds with empathy/tips.
- 4.**Coping:** User engages in a guided module (e.g., breathing exercise).
- 5.**Crisis Escalation:** If AI detects risk, it provides a direct, immediate link to a human helpline.

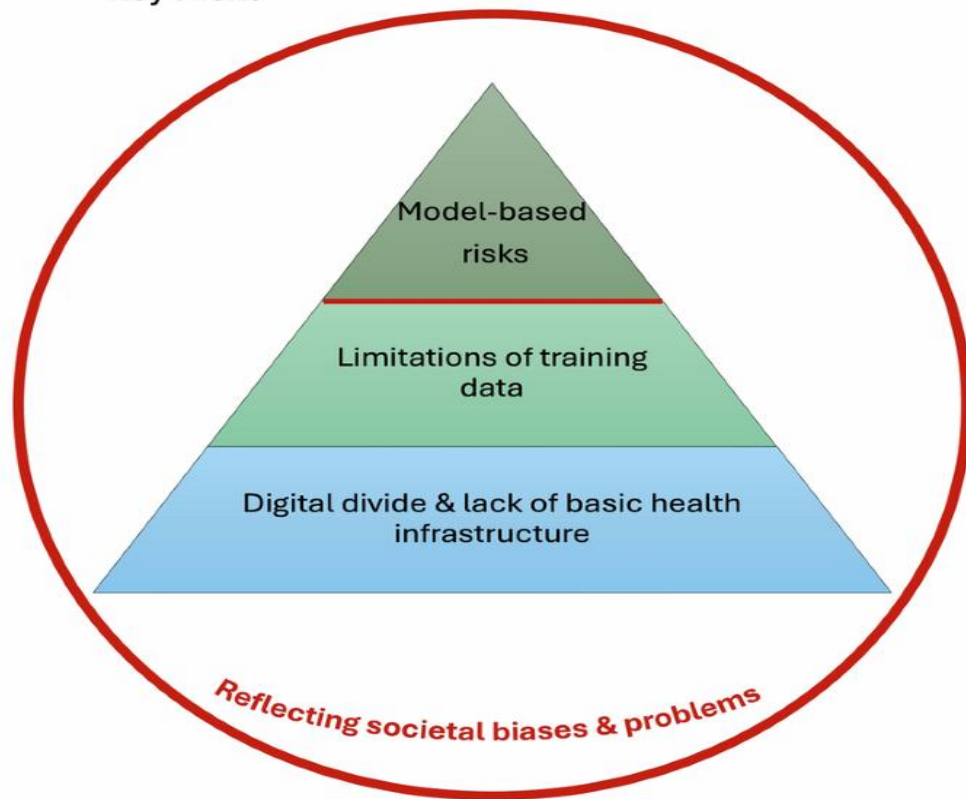


Wireframes/Mock diagrams of the proposed solution (optional) :

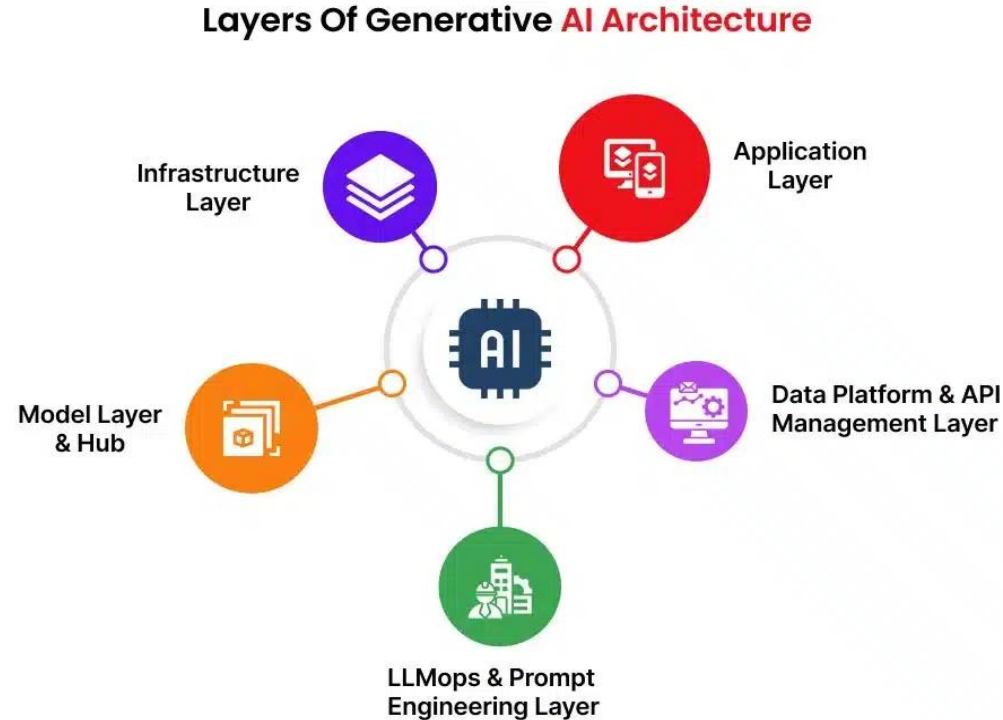
Key Principles



Key Risks



Architecture diagram of the proposed solution :



Technologies to be used in the solution:

- **Generative AI:** Google Cloud **Vertex AI**
- **Conversational AI:** Google Cloud **Dialogflow CX**
- **Backend:** **Firebase** (Firestore, Functions, Hosting, Authentication)
- **Data & Analytics:** Google **BigQuery**
- **Frontend:** React (Web), Flutter (Mobile)

Estimated implementation cost (optional):

- The solution can be built on Google Cloud's generous free tiers for low initial costs.
- The cost model is highly scalable, with fees only increasing based on usage (e.g., number of API calls, database reads/writes).

THE COST OF GENERATIVE AI

36 CENTS

Cost of a single ChatGPT query

\$700,000

The cost per day for OpenAI to operate ChatGPT

X10

The cost to run an AI query compared to traditional search

6 BILLION

The annual cost for Alphabet to integrate AI into Google Search

\$200 MILLION

Cost to develop an AI model from scratch

Add as per the requirements for the hackathon:

- impact:** Mindful aims to create a significant social impact by making mental wellness accessible and destigmatized for millions.
- Next Steps:** Full implementation of multilingual support and mobile apps.
- Long-term Goal:** Partner with NGOs and educational institutions to integrate professional help.

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Thank you