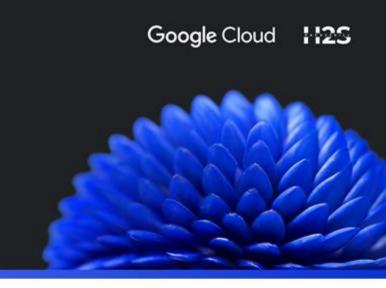


Gen Al Exchange Hackathon



Team Name: Al for Good

Team Leader Name: Aryan Raj

Problem Statement: Generative Al for Youth Mental Wellness

Brief about the prototype:

Our prototype is an **Al-powered emotional companion** that detects a user's mood in real time and responds with **human-like conversations**, **poems**, **quotes**, **and calming visuals** to reduce stress and loneliness. It features a **J.A.R.V.I.S-like interface**, making interactions feel alive and supportive.

The system doesn't just talk — it guides users with **small**, **actionable steps** (like breathing prompts or reflections) to improve their mental state.

By combining **Generative AI, mood detection, and an engaging UI**, we transform AI from a passive chatbot into a **24×7 friend** that listens, understands, and uplifts young people when they need it most.

Opportunity should be able to explain the following:

How We Are Different:

Most chatbots give generic, one-size-fits-all replies. Our solution is **emotion-aware** — it detects mood shifts and delivers **personalized poems, quotes, calming visuals, and conversations** tailored to the user's feelings.

P How It Solves the Problem:

By engaging users in **human-like dialogue** and offering **actionable relief steps** (reflection prompts, breathing exercises), it helps reduce stress, anxiety, and loneliness — making emotional support available **24×7**.

USP (Unique Selling Point):

A J.A.R.V.I.S-style, generative Al companion that not only listens but actively guides users towards emotional balance — turning Al into a true friend, not just a bot.

List of features offered by the solution

- Mood Detection Real-time emotion recognition from text/voice.
- Conversational AI Natural, human-like interaction with memory of past chats.
- ♠ Personalized Content Generates mood-based poems, quotes, and calming affirmations.
- Visual Therapy Shows soothing images or animations matched to emotional state.
- (b) 24×7 Availability Instant emotional support anytime, anywhere.
- **Adaptive Engagement** Switches tone based on mood (calming for anger, uplifting for sadness).
- **Progress Tracking** Gives insights into mood patterns over time (optional future feature).
- **©** Actionable Relief Suggests micro-activities like breathing exercises, journaling, reflection prompts.

Process Flow Diagram - MindMate Al



Mood Detection (NLP Model)

Generative AI (Groq / LLM)

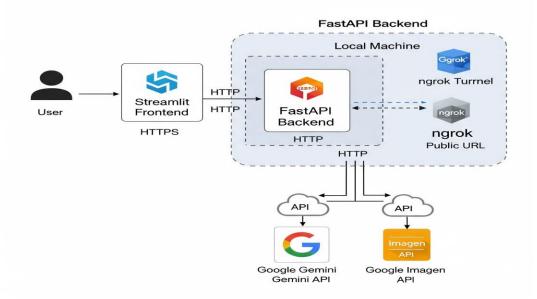
Personalized Output (Reply + Poem + Image)

Wireframe / Mock UI - MindMate AI

MindMate AI		
Mood Selector:	Calm Sad Anxious Stressed Lonely Grateful Energized	
Write about you	r day:	
	User types here	
Al Reply:	Reflect with AI	
,	Al response, poem, quote & image preview here	

Architecture diagram of the proposed solution

Mental Wellness Application



Technologies to be used in the solution:

Category

Frontend

Backend

AI & Processing

Data & Storage

Deployment

Technologies / Tools

Streamlit (Prototype UI), ReactJS (Future

J.A.R.V.I.S-like Interface)

FastAPI (REST API), Uvicorn (ASGI Server)

Groq API (Generative AI LLM), NLP Models

(Sentiment & Mood Detection)

Google Drive (Image Hosting), Curated Quote

Dataset

Ngrok (Prototype Tunneling), Future Cloud Hosting

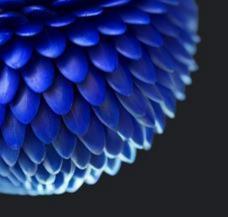
(AWS / GCP)

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Add as per the requirements for the hackathon:

Aspect	Details
Innovation	First-of-its-kind Generative AI Emotional Companion with mood detection + poetry + visual therapy in one unified flow.
Scalability	Can scale easily with cloud deployment — supports millions of users with minimal infrastructure changes.
Social Impact	Addresses growing problem of youth loneliness, anxiety, and stress — aligns with SDG Goal 3: Good Health & Well-Being.
Future Enhancements	Voice-based interaction, AR/VR immersive companion, gamified habit tracking, mental wellness analytics dashboard.
Monetization (Optional)	Subscription for premium features (personalization, deeper analysis), partnerships with mental wellness apps.
Team Strength	Hackathon winners with strong coding background — ready to build a production-ready solution, not just a prototype.

Dotaile



Gen Al Exchange Hackathon

Thank you

