

Gen AI Exchange Hackathon

Team Name : WellnessWeavers

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Problem Statement : GenAI Exchange Hackathon

The Youth Mental Health Crisis

Rising Challenges

Young people face unprecedented stress, anxiety, and depression.

Support Barriers

Traditional services are inaccessible due to stigma, cost, and wait times.

Generic Solutions

Existing apps lack personalization and empathy.

Our AI-Powered Wellness Companion

An innovative solution for young people, combining technology with compassionate care.



Empathetic Listening

Generative AI for natural, understanding conversations.



Personalized Strategies

Tailored coping mechanisms based on emotional patterns.



Early Detection

Identifies mental health risks before escalation.

What Makes Us Unique

1

Truly Personalized

Advanced AI analyzes emotional state, communication, and preferences.

2

Proactive Intervention

Monitors mood/behavior patterns to identify trends.

3

Safe & Anonymous

Judgment-free space for sharing deepest concerns.

1

Multi-Modal AI

Text analysis, voice recognition, sentiment detection for understanding.

2

Gamified Journey

Progress tracking, mood journaling, achievement rewards.

Comprehensive Feature Set

AI Therapeutic Conversations

Chat-based support with non-clinical guidance.

Visual Mood Analytics

Interactive dashboard for mood patterns and insights.

Wellness Toolkit

Resources for self-care and mental well-being.

How Our System Works

A seamless, intelligent process for immediate support and user safety.



1

User Engagement

Log mood or initiate conversation with AI.

2

AI Analysis

Generative AI processes input with sentiment analysis.

3

Personalized Response

AI provides empathetic responses, coping strategies, resources.

4

Safety Escalation

Risk indicators trigger escalation to support networks.

Technical Architecture

Robust, scalable technology for reliability and security.

1

User Interface

Flutter cross-platform mobile and web apps.

2

API Layer

Node.js and Python backends for real-time processing.

3

AI Intelligence

Hugging Face, LLMs, Advanced Sentiment Analysis.

4

Data Foundation

MongoDB for secure user data and journal entries.

5

Cloud Infrastructure

AWS/GCP for 99.9% uptime and scalability.

Cutting-Edge Technology Stack

- **Advanced AI & ML**

LLMs (GPT, BERT), sentiment analysis, speech emotion recognition.

- **Cross-Platform Dev**

Flutter for seamless iOS, Android, and web experience.

- **Robust Backend**

Python (Flask/FastAPI), Node.js, MongoDB, Firebase.

- **Intelligent Data Viz**

Matplotlib, Plotly for mood graphs and progress tracking.

Transformative Impact on Young Lives

1**Early Management**

Empowers youth to address stress, anxiety, depression.

2**Breaking Stigma**

Encourages open self-expression in a safe environment.

3**Supporting Networks**

Provides insights to parents, teachers, youth organizations.

4**Tech-Health Integration**

Bridges gap between tech and mental health care.

The Future of Youth Mental Wellness

Redefining mental health support through compassionate AI technology.

Our Vision: Making mental health care [accessible, empathetic, and AI-powered](#) for every young person who needs it.

Join us in revolutionizing youth mental wellness. Together, we can create a world where no young person suffers in silence.

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Thank you