



# MENTIS 2026



TGIC  
తెలంగాణ శాసనసౌకర్య

VABA  
Vaagdevi Incubation & Business Accelerator

- Problem Statement ID –MENTISO07
- Problem Statement Title-SPEECH-ANALYSIS BASED AI SYSTEM FOR SUPPORTING INDIVIDUALS WITH DEPRESSION
- Theme-AI for early mental health support and emotional well-being
- PS Category- Software
- Team Name (Registered on portal)- DIVAS

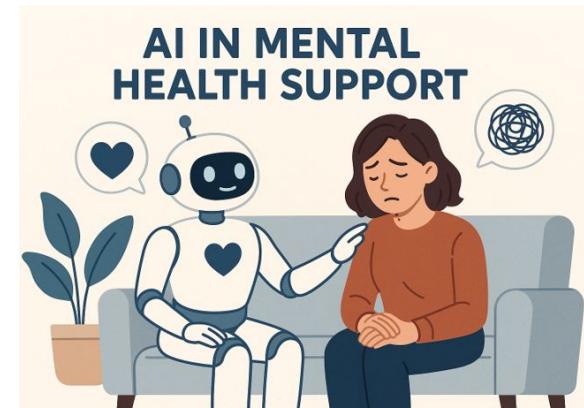
# AI FOR EARLY MENTAL HEALTH SUPPORT AND EMOTIONAL WELL-BEING

The proposed solution is the development of an AI-powered mental health and support platform that focuses on early identification of stress, anxiety, depression.

Mental health matters-AI makes it accessible

The solutions used for mental health support and emotional well-being

1. Data collection
  - Daily mood checks-in
  - Text-based conversation
2. AI-driven emotion analysis
  - Sad, joy and etc



# TECHNICAL APPROACH

## FRONTEND(USER INTERFACE)

1. HTML-Structure
2. CSS3-Styling
3. Javascript-client-side interaction

### FEATURES

- 1.Voice input/audio upload
- 2.Text display

## BACKEND

- 1.Python
- 2.Flask-Web framework
- 3.speech Recognition

### FEATURES

- 1.Audio processing module
- 2.NLP&emotion detection module

# FEASIBILITY AND VIABILITY

## FEASIBILITY

### 1.Techincal feasibility

- AI for algorithms for emotion detection,mood tracking, and chatbots are already available
- it can be integrated by smartphones,wearables devices and online platform

### 2.Operational feasibility

- users can easily interact with AI via apps or websites
- provide 24/7 support without needing constant human support

## VIABILITY

### 1.Social viability

-Encourage mental health awareness and reduces stigma.

### 2.Financial viability

-can be offered as a freemium app or through organizations.

### 3.Practical viability

-AI adapts to users emotional patterns over time.

# **IMPACT AND BENEFITS**

## **IMPACTS**

- 1.Early detection of emotional issues
- 2.Improved mental health awarness
- 3.Reduces burden on mental health professionals
- 4.enhances productivity and performance
- 5.Reduces stigma around mental health
- 6.Encourages positive lifestyle changes

## **BENEFITS**

- 1.24/7 support
- 2.personalized guidance
- 3.confidential and safe
- 4.cost-effective solution
- 5.continous monitoring
6. Increases attention and awareness,stress management

# RESEARCH AND REFERENCES

1. Systematic review on AI in mental health
2. Studies on young adults and AI perceptions
3. Reviews on broader applications

## REFERENCES

1. Mansoor,M.A.,& Ansari,K.H.
2. Basha,S.E.,Gull,M.Alquqa,E.K.,
3. The application of artificial intelligence in positive mental health.