

### Our team



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## "THE GROWING NEED FOR

**MENTAL HEALTH SUPPORT** "





## 970,000,000

global population living with mental health disorders as of 2019

26%

In 2020, there was an estimated 26% rise in anxiety disorders and a 28% rise in major depressive disorders globally

76% - 85%

people with serious mental disorders remain untreated







Business News / Budget / Economic Survey 2024: Mental Health Issues Among Indians Rising; Need 7

### Economic Survey 2024: Mental Health issues among Indians rising; Need to bring paradigm shift to address challenges

Economic Survey 2024: While citing the National Mental Health Survey (NMHS) 2015-16 data, the survey said 10.6 per cent of adults suffered from mental disorders in India while the treatment gap for mental disorders ranged between 70 to 92 per cent for different disorders.

Written by Sushmita Panda

Updated: July 22, 2024 16:38 IST

## MENTRIX

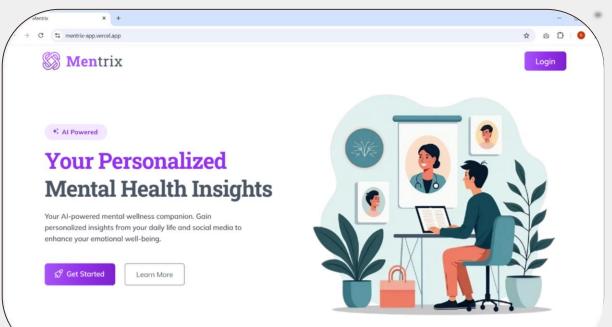
- ✓ Early Detection of Mental Health Issues
- ✓ Enhanced Employee Support
  - Ethical and Confidential Analysis

- ✓ Improved Productivity and Engagement
- ✓ Data-Driven Decision-Making



#### << OUR CORE TECHNOLOGY ECOSYSTEM >>

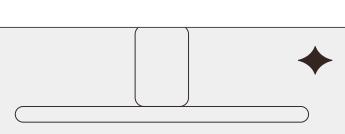






Flask







#### WORKFLOW OF MENTRIX

This model used to predict stress levels based on user input.

GradientBoostedTree (Stress Level Prediction)

Analyzes the emotional sentiment of user input

**Sentiment Analysis** 

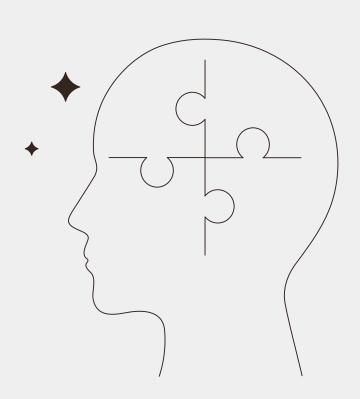


User Input (Responses) Collects user-provided responses to assess stress levels LLMs (Dynamic Question Generation)

Leverages large language models to generate tailored follow-up questions dynamically. Final Output (Stress Assessment & Recommendations)

Provides a comprehensive stress assessment and tailored recommendations for the user.

# A USER'S JOURNEY





+ Al Powered

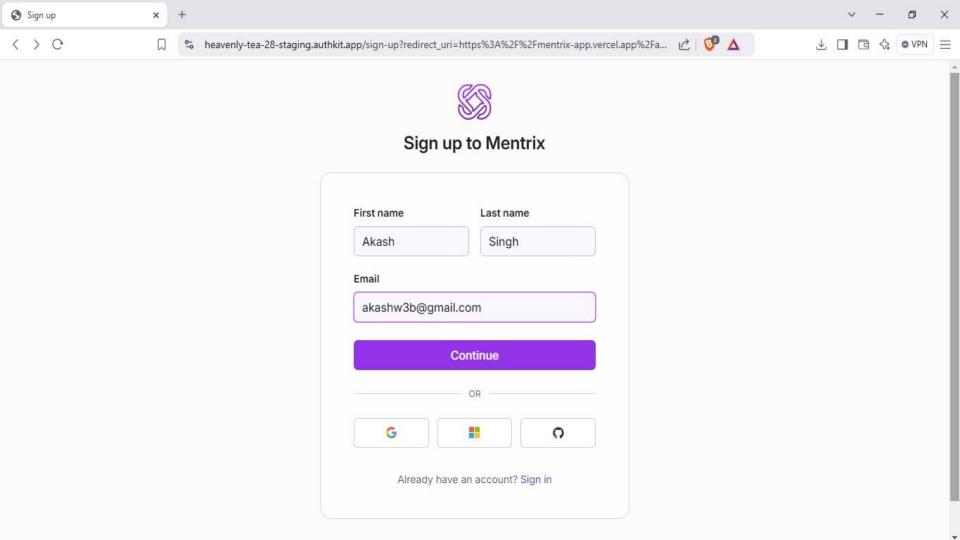
## Your Personalized Mental Health Insights

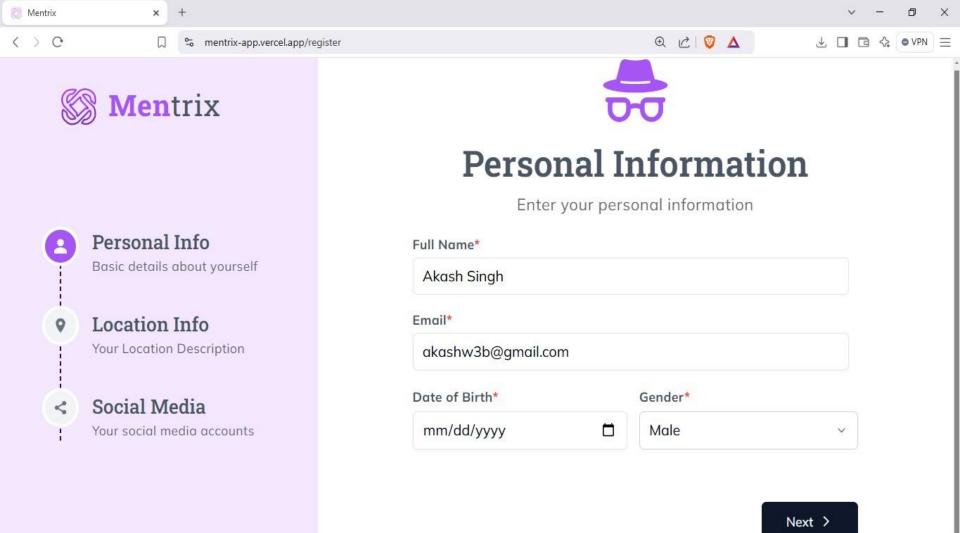
Your Al-powered mental wellness companion. Gain personalized insights from your daily life and social media to enhance your emotional well-being.



Learn More











## **Location Description**

Enter your location description

Personal Info

Basic details about yourself

Location Info

Your Location Description

Social Media

Your social media accounts

Country*		
India		
State*		
West Bengal		
City*	Pincode*	
Kolkata	711202	

< Prev





Basic details about yourself

Cocation Info

Your Location Description

Social Media

Your social media accounts



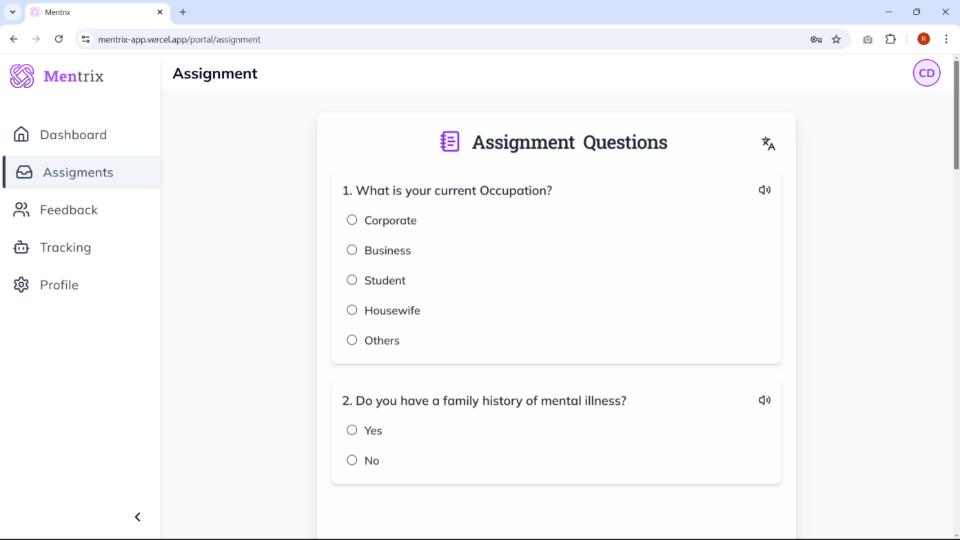
#### **Social Media Profiles**

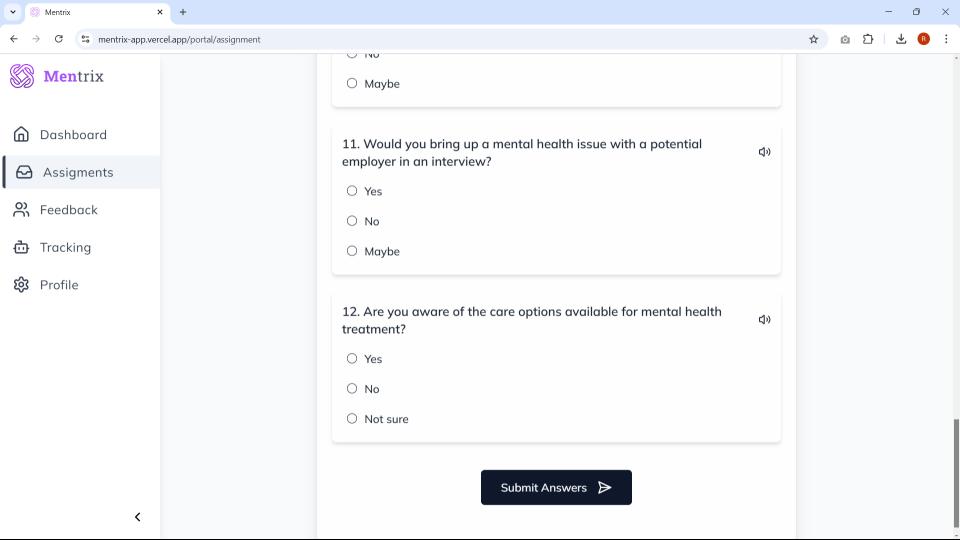
Your presence on social networking platforms

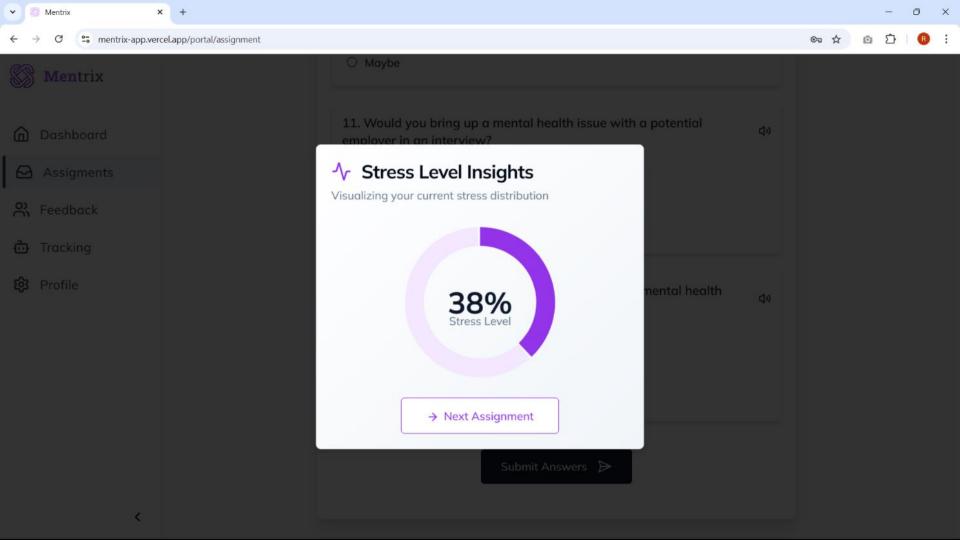
⊕ Faceboo	ok Link (Optional)	
<b>⊡</b> Instagr	am Link (Optional)	
Linkedli	n Link (Optional)	

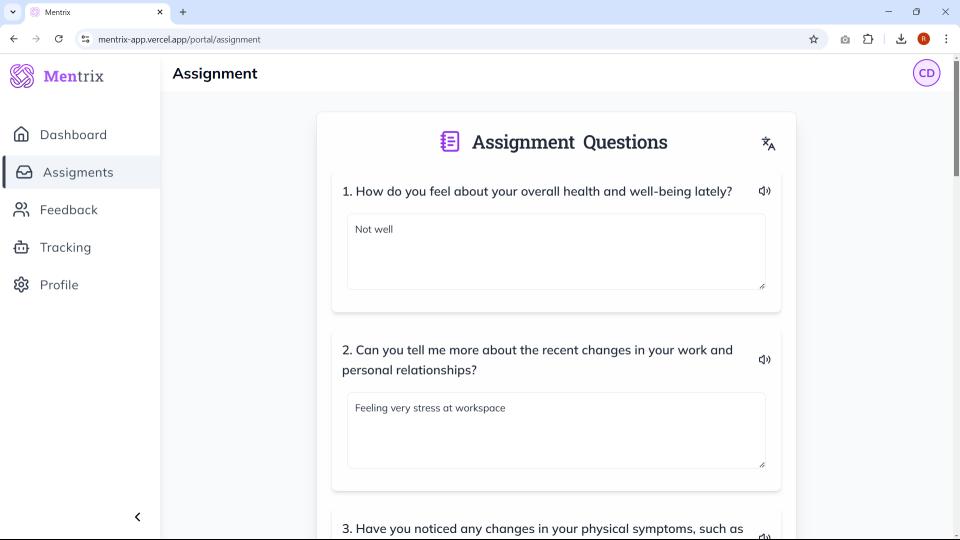


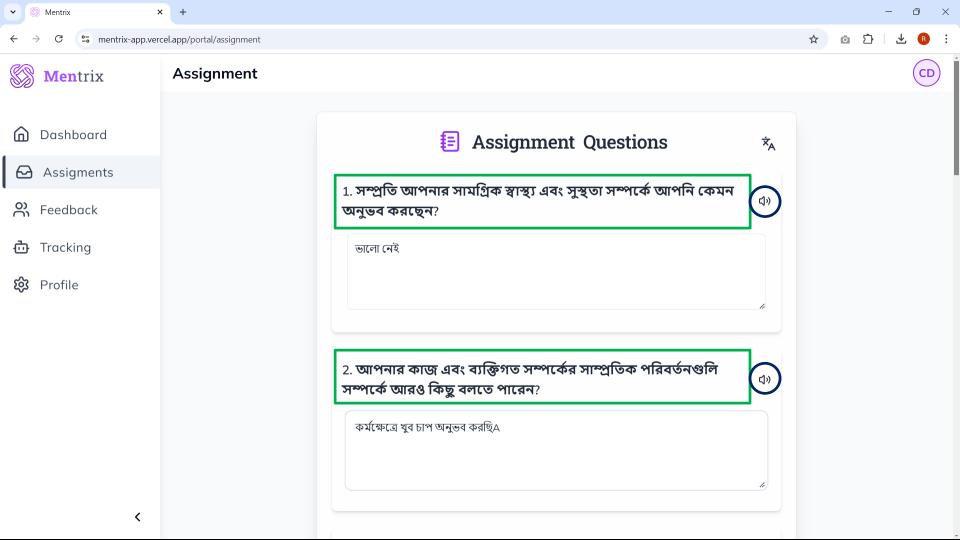
Submit 🗸



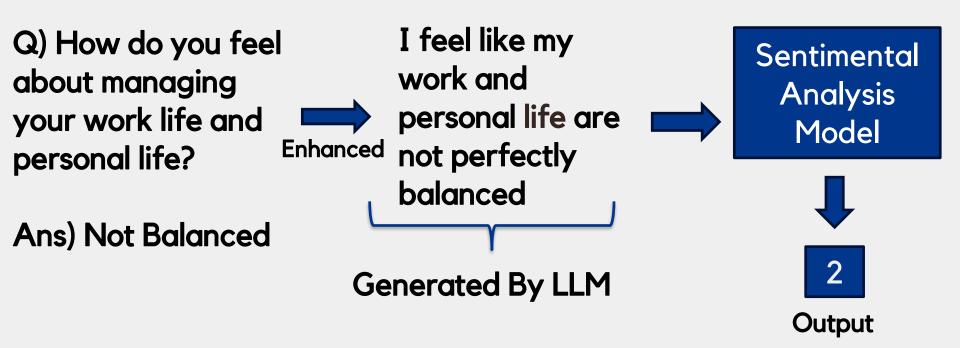






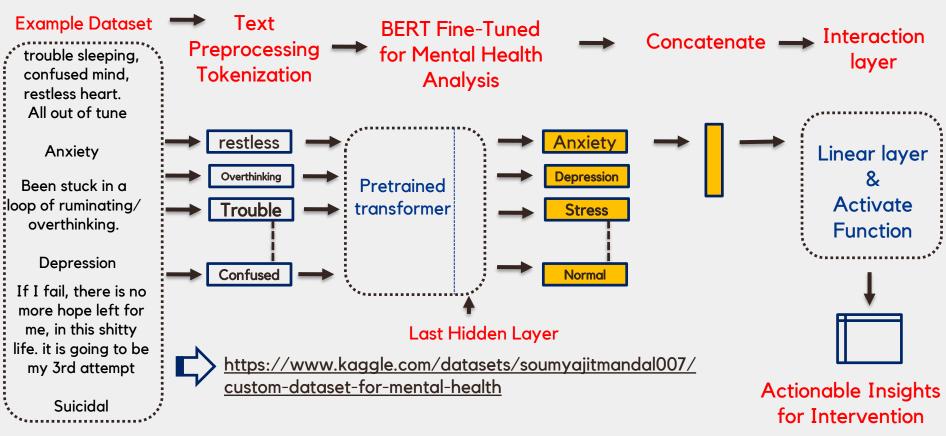


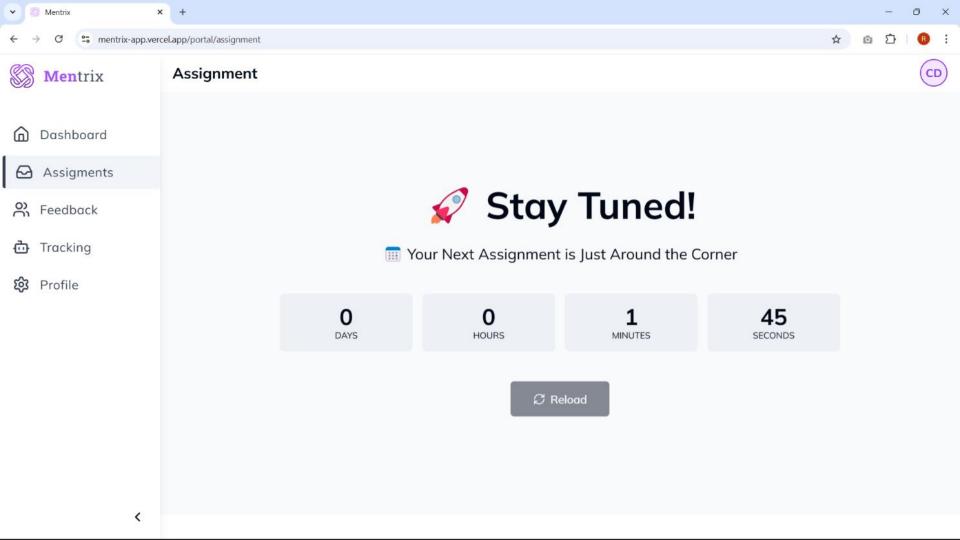
## **Example**

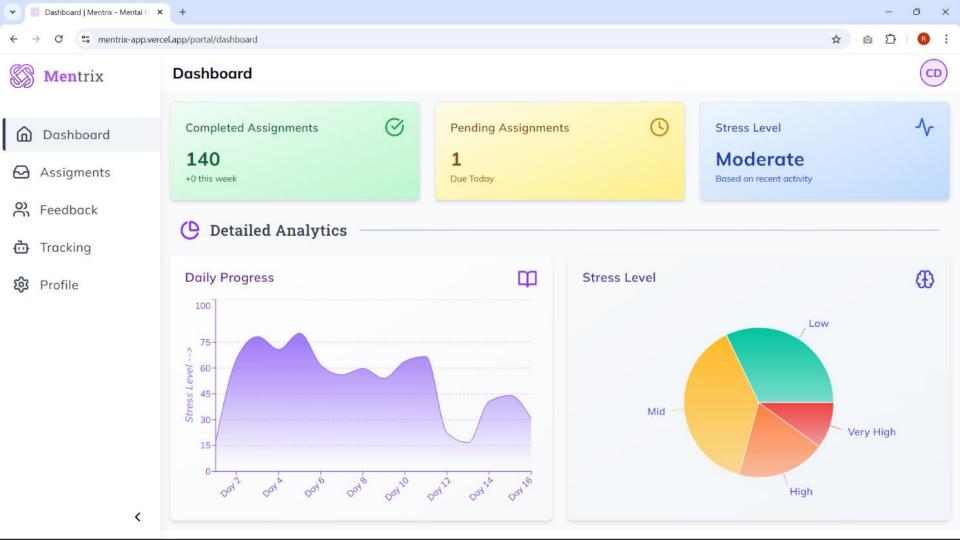


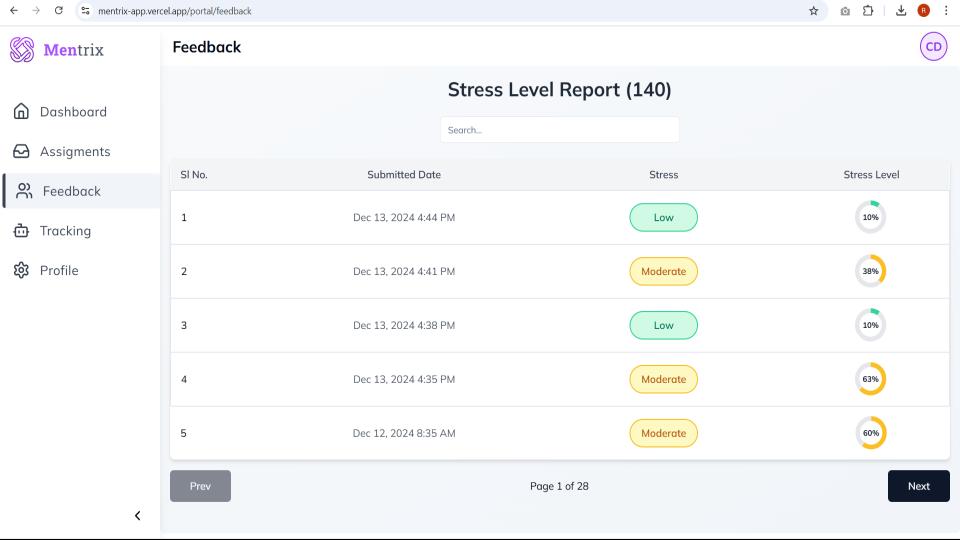
Ranges from 0 to 4 (0 is Normal ... 4 Very High Stress)

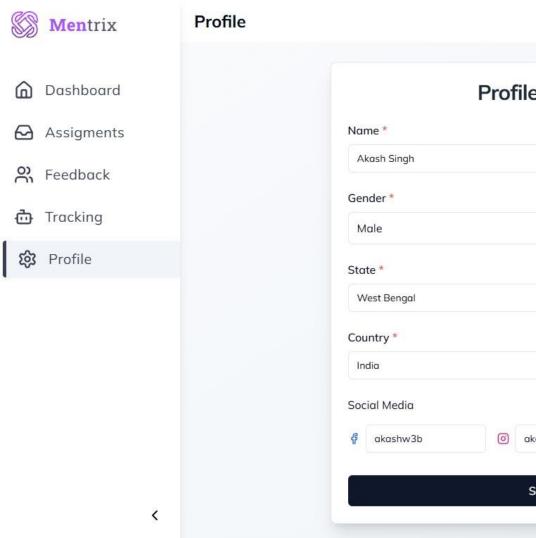
## Fine Tuning BERT for Mental Health Insights

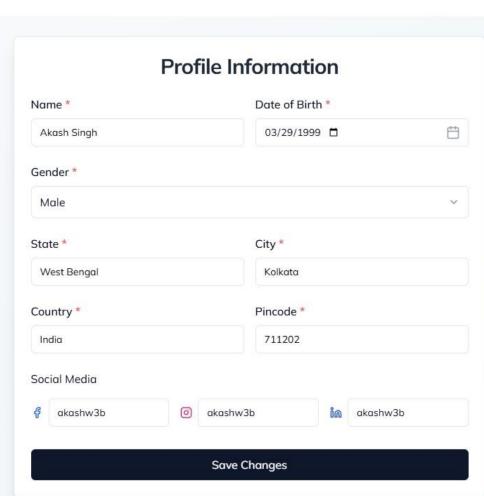


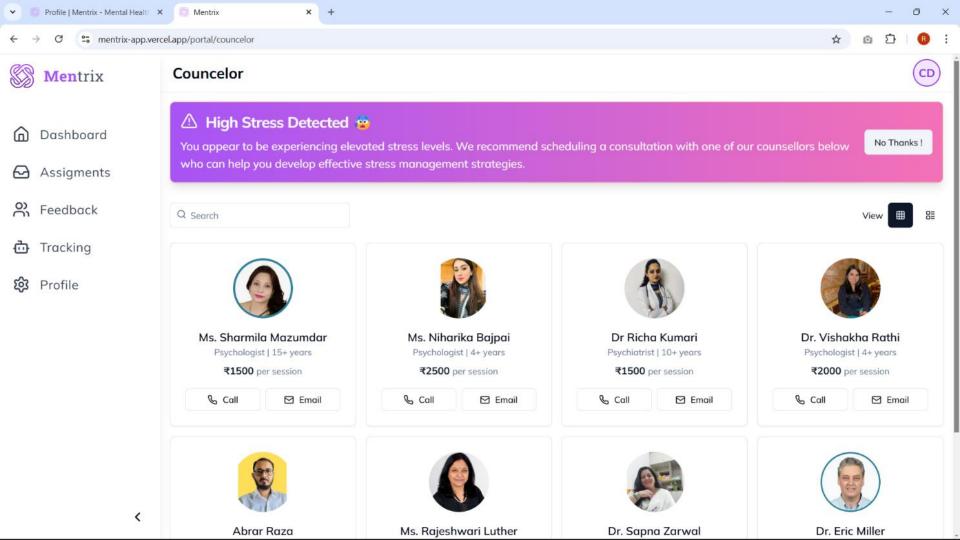


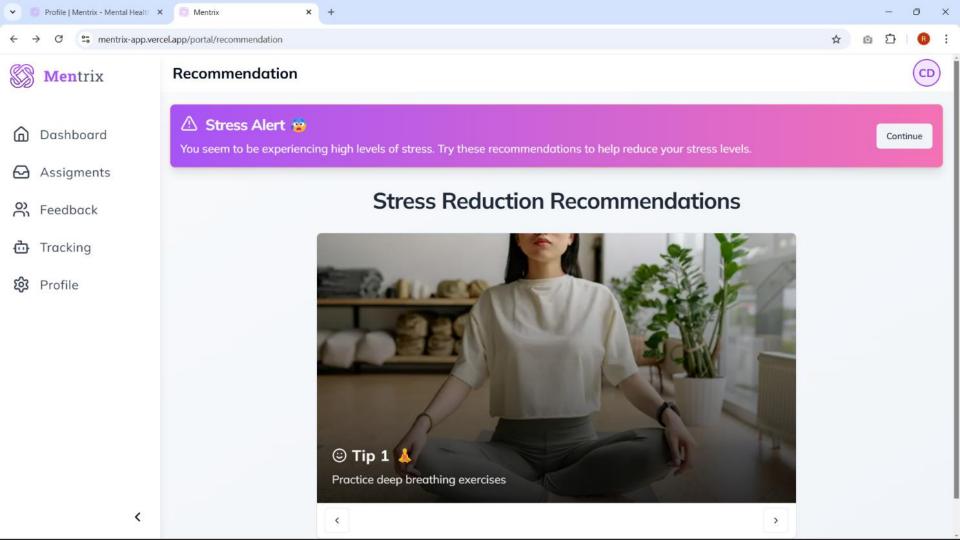












### Who can use Mentrix?

Human Resource **Departments** 

- Educational Institutions
- Team Leaders and Managers Healthcare Organizations
- Corporate Organizations
- ✓ Non-Profit Organizations

Mental Health Professionals

## **Future Scope**

#### Facial Emotion Recognition:

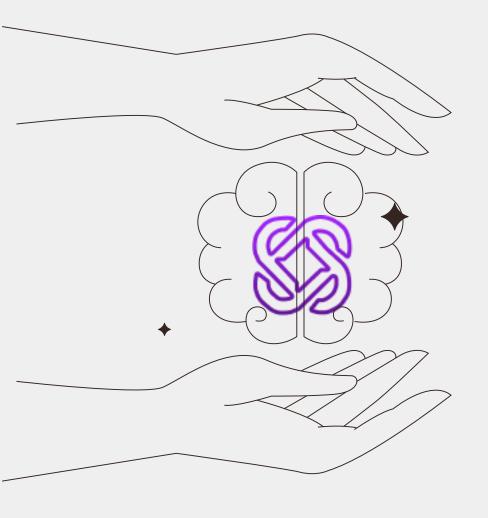
- > Integrate computer vision techniques to analyze facial expressions ( smiles, frowns ) in real-time or from recorded video.
- > A model to recognize emotions like happiness, sadness, anger, and surprise, which can provide valuable insights into an employee's emotional state.

#### Voice Analysis:

- Analyze vocal characteristics such as pitch, tone, and speech patterns. Develop models that can detect signs of stress, anxiety, or depression in an individual's voice.
- > Incorporate natural language understanding techniques to analyze the emotional content of speech.

### References

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## Thanks!

~ TEAM MENTRIX