24-25J-293

Utilising Machine Learning for the Development of a Mobile Application and Web Extension for Predictive Mental Health Monitoring and Personalized Support

AI

Mental Health

Support

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01 Research Problem

Digital technology significantly impacts individuals' mental health, often through their online interactions and behaviours. However, there is a dearth of comprehensive tools capable of accurately tracking and analysing these behaviours, hindering the timely and personalised provision of mental health support.

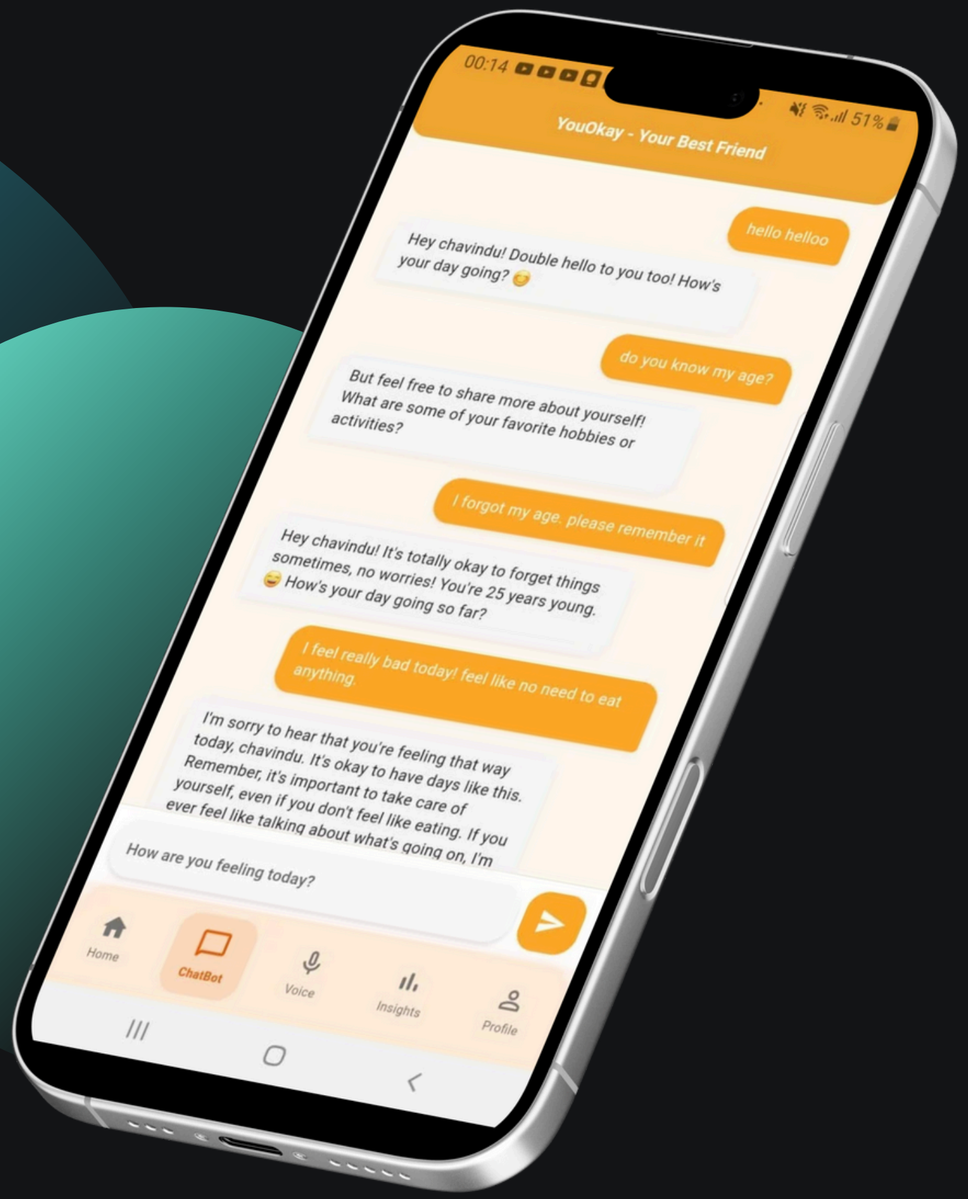
02 Question We Understood

How can a mobile application and web extension effectively integrate analysis of digital interactions, emotion detection, physical data collection, and face recognition to provide personalized, real-time mental health support to users?

YouOkay

Research Solution

- Mobile App
- Web Extention
- AI Powered Support



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Objectives of YouOkay

Machine Learning Analysis

Analyses digital interactions to assess mental health status.

Emotional State Assessments

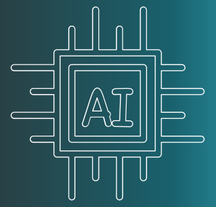
Gauge the emotional state based on behaviour patterns.

Supportive

Provides tailored support when mental health is not critical.

AI Powered

Provide Automated solution by reducing human involments



Technologies

For the Overall Project

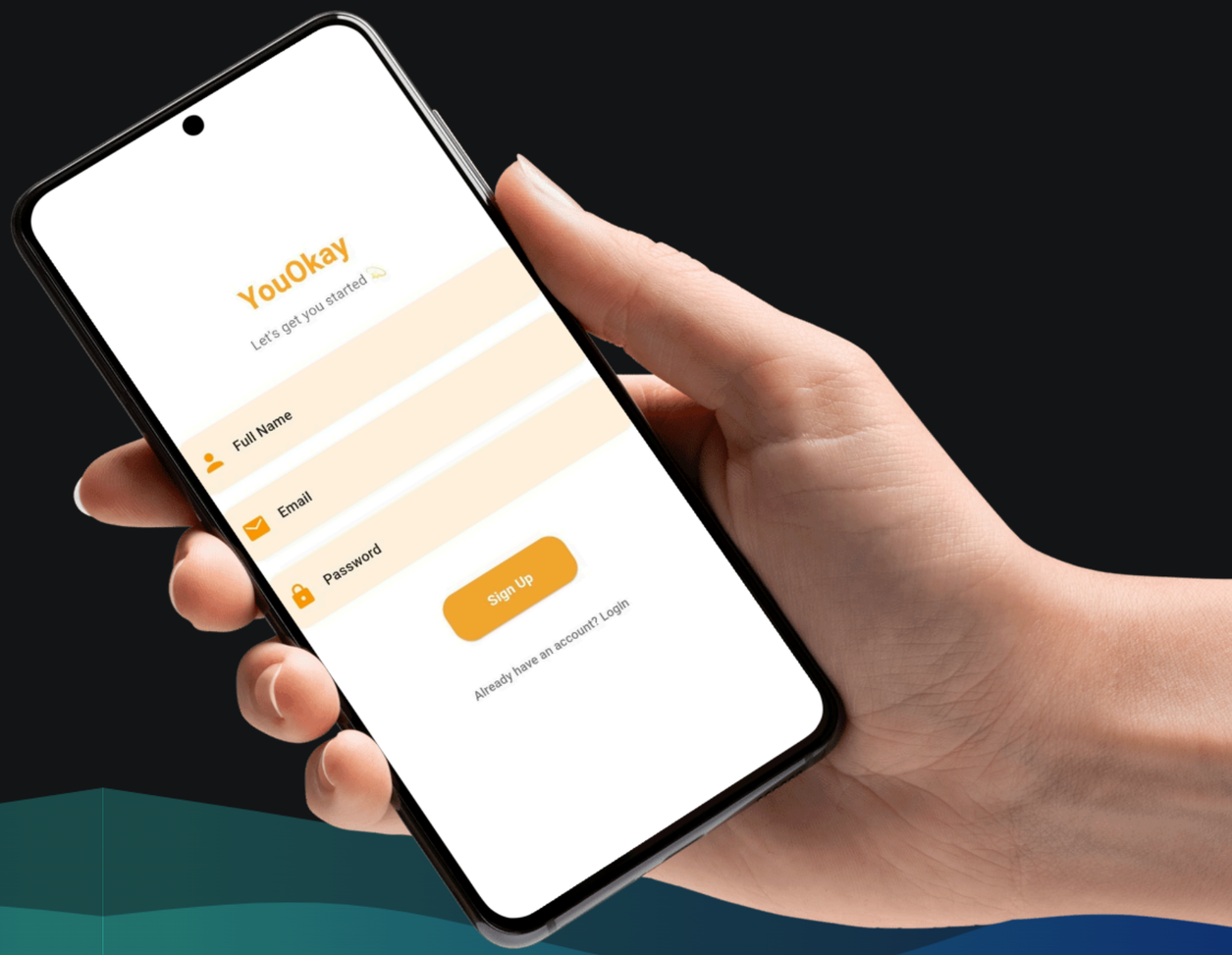
- Flutter
- NodeJS
- MongoDB
- Azure
- JavaScript
- Python
- Flask
- OpenAI
- SciKit Learn
- Tensorflow



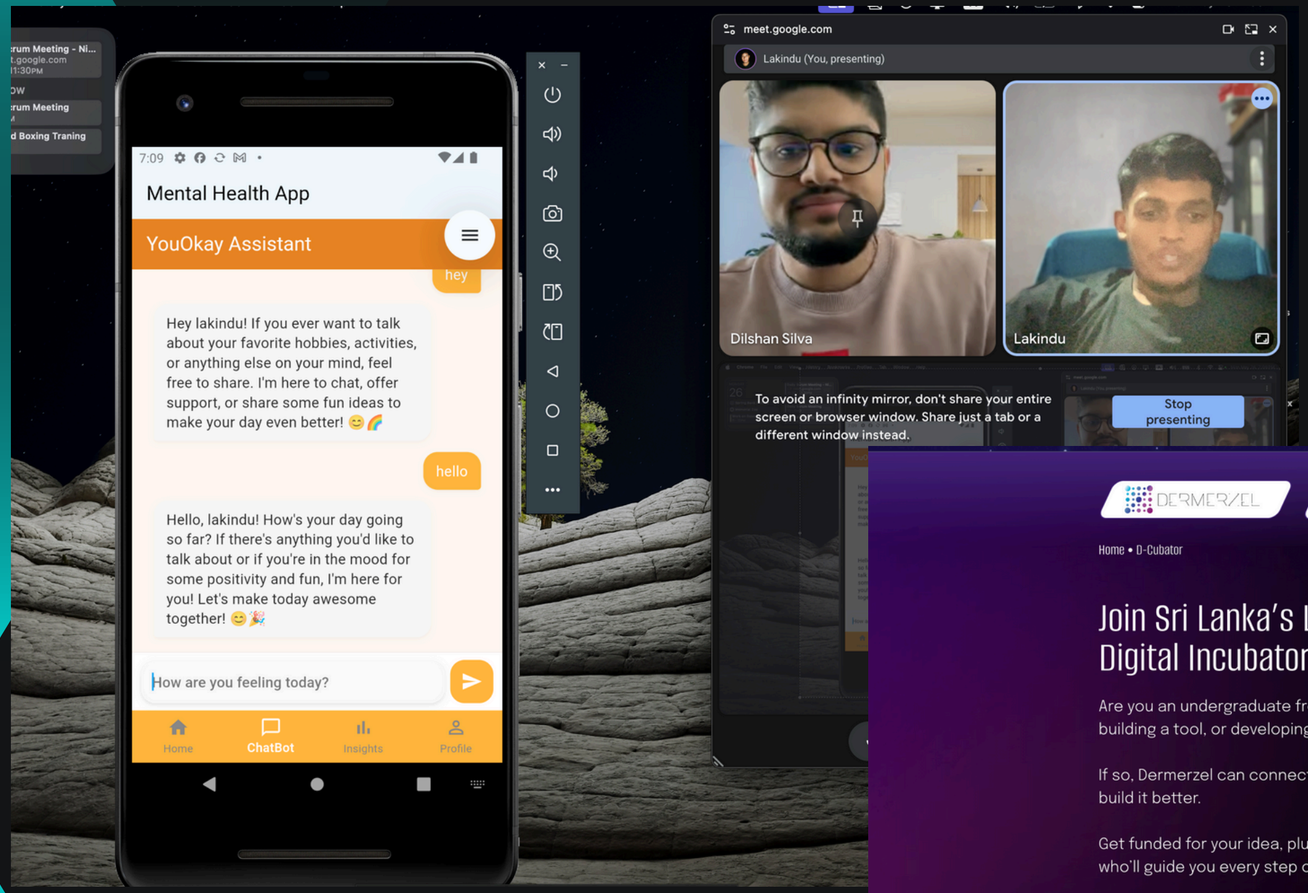

Introduce this product to the Market

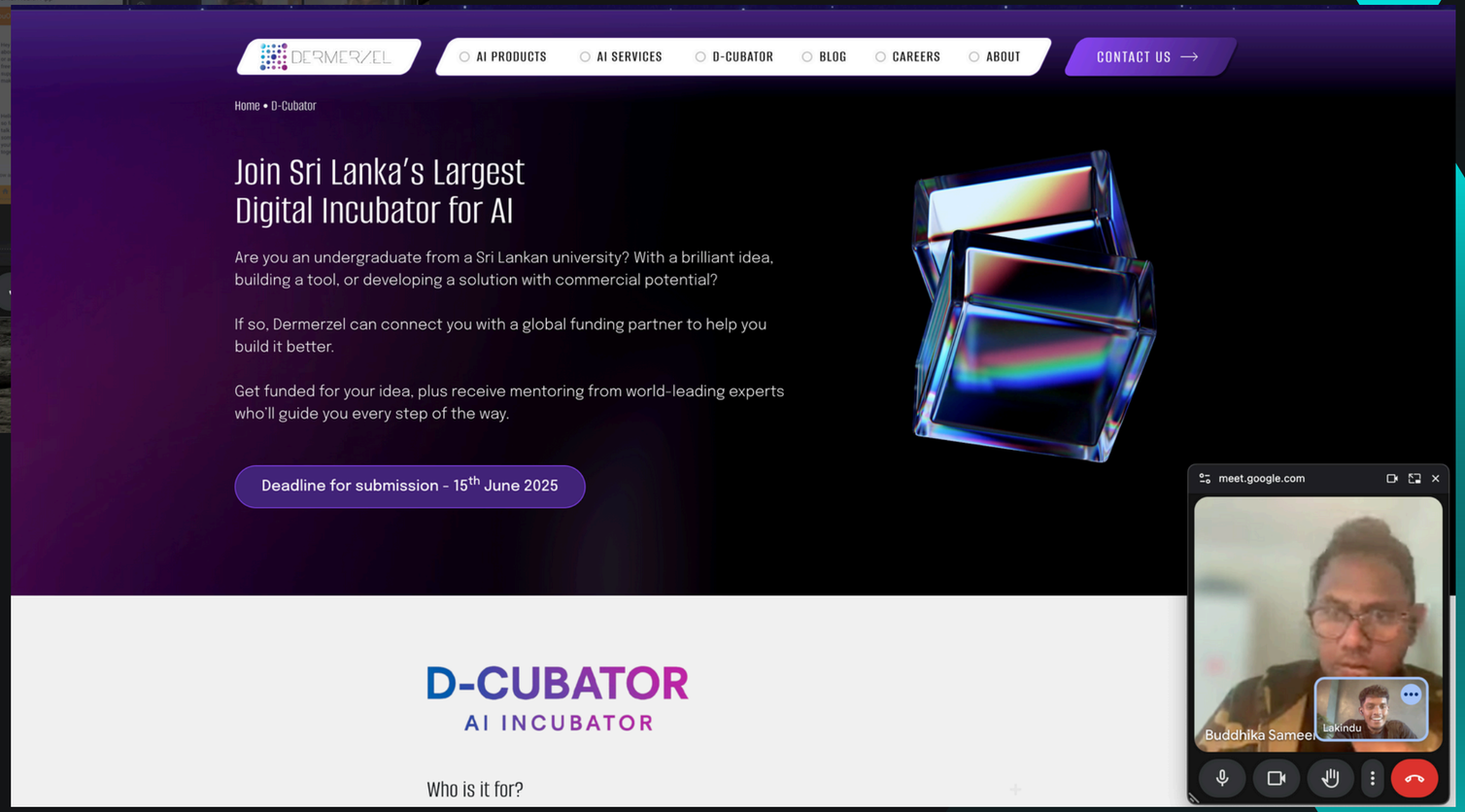
As a product, we believe this would be one of the best mental health-supporting AI-powered solutions in the market.

- B2B
- B2C



Product Pitching

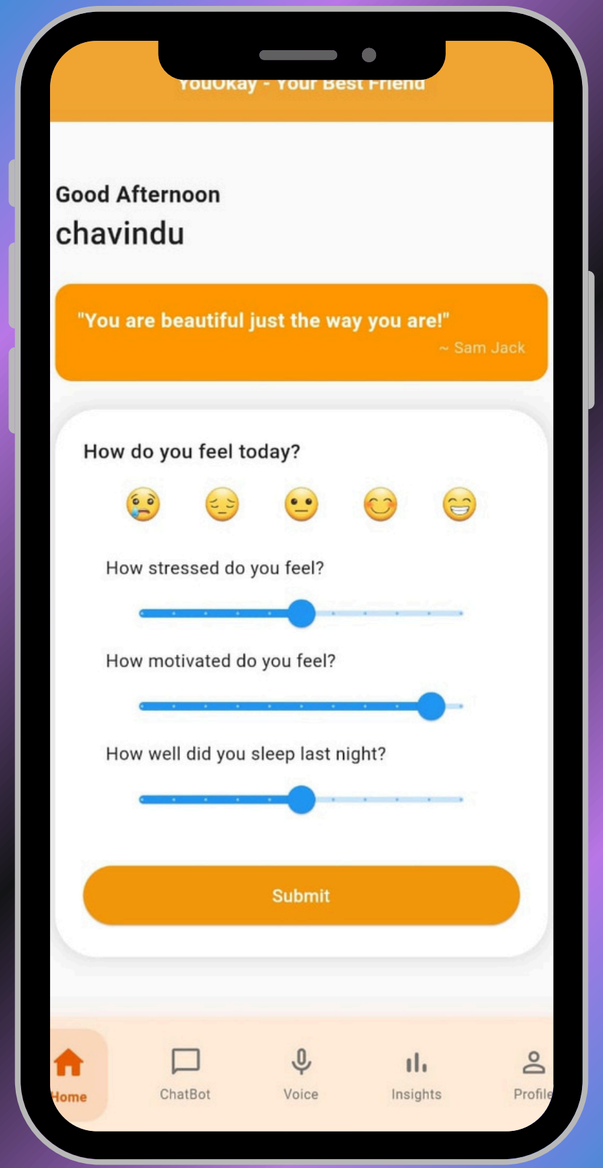




- For Feedback
- Discussed About Commercialisation
- Get Invesment

B2C

- B2C Product for All Consumers
- This product is accessible to individuals and organisations alike.
- Individual Pricing: **Free**
- Organisational Pricing: **Paid**



B2B

- Provide this solution as a service API to businesses that are already in the market with their existing products, such as human resources solutions.

our commercial website is operational

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Alwis P.K.D.L.W

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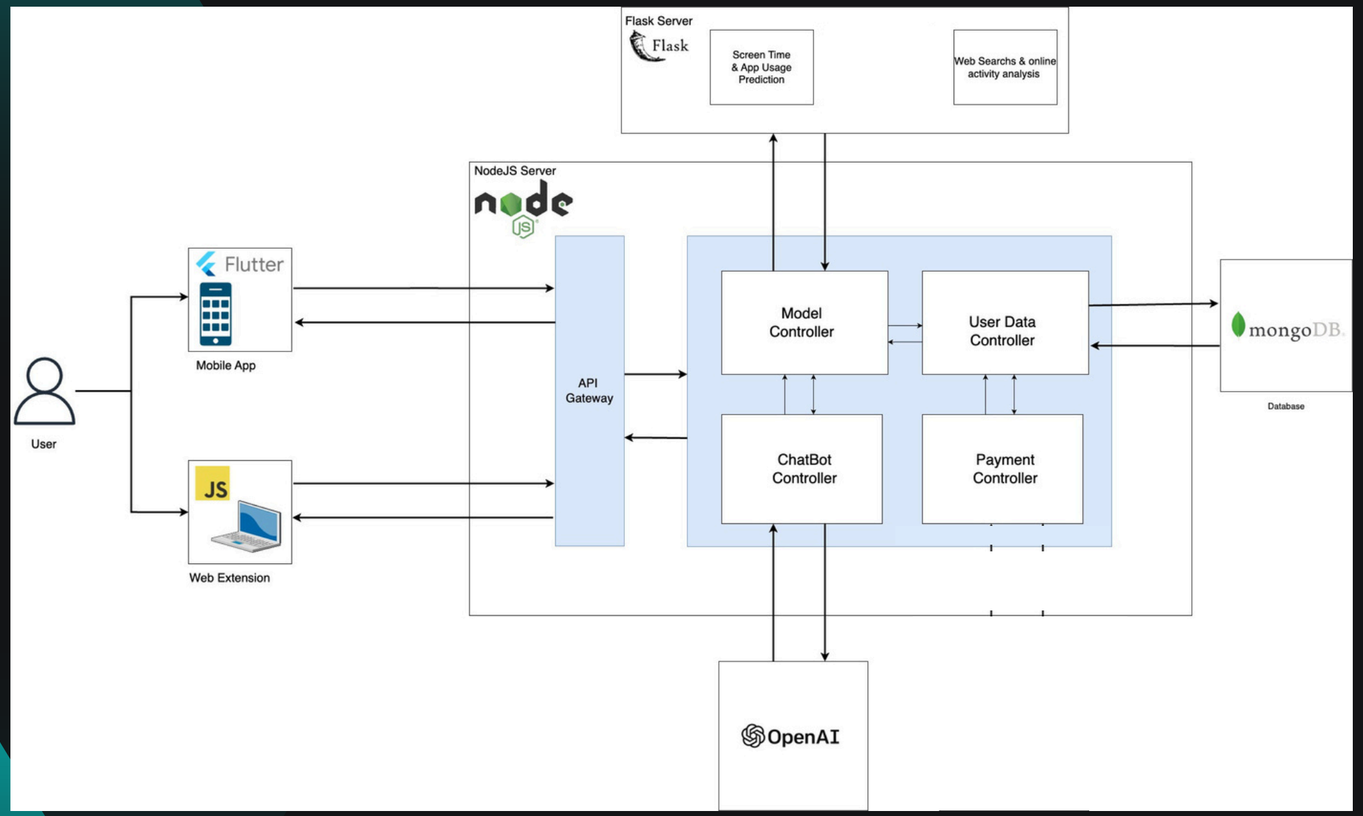
Predict user mental health behaviours using machine learning by analysing web searches, app usage, and online activities, and create a chatbot to interact with users.

Task

1. Data collection from users through the Screen Time API, Web Searches, and Chatbots.
2. Developed two model analysis datasets, including screentime and sentiment analysis.
3. Developed Web extention which can track users web search and implmeted mobile app for able users to h track treir screentime and access personal assistent.
4. Developed a commercial website and deployed all to production on Microsoft Azure.

Tech Side



- Redis
- Nginx
- Open AIs
- PM2
- GitHub Actio

Chavindu

IT21306204

Daily user emotion Data Collection, Voice, and Data Integration Mental Health System

Task

1. Data gathering from Daily User Emotion Form
2. Data gathering from User Voice
3. UI Creation
4. Ovarall Data gathering and visiualization

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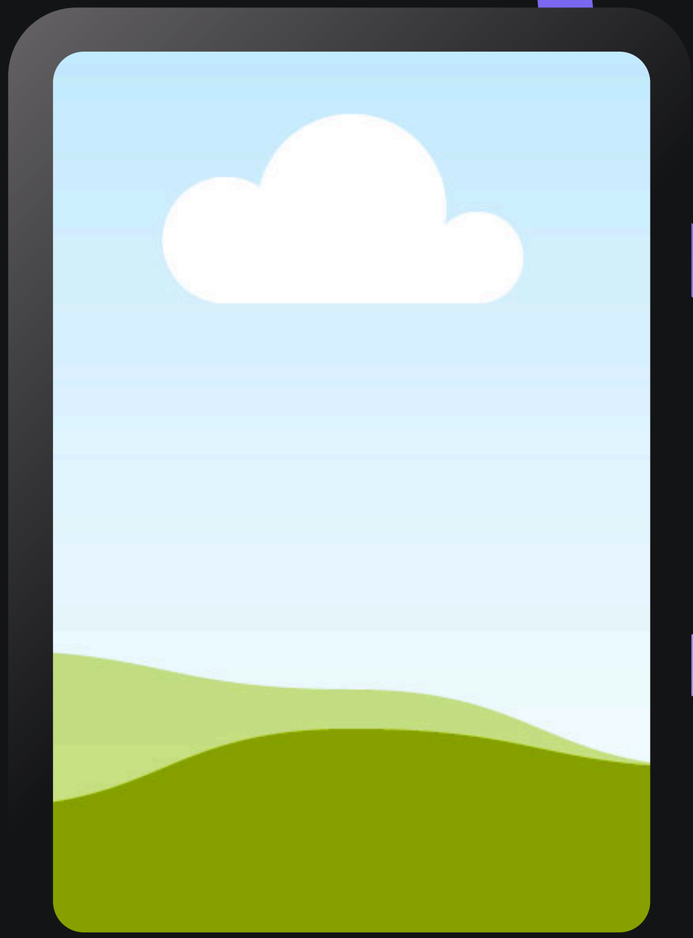

Jahani M.J.A

IT21346736

INCORPORATING BIOMETRIC DATA TO ENHANCE MENTAL WELLBEING - REAL-TIME HEARTBEAT MONITORING AND PERSONALIZED HEALTH FEEDBACK

IOT device to obtain the heartbeat

- Real-time
- Accurate
- Seamless Integration

Heart Rate Variability (HRV) Insights

- HRV tracking for recovery, stress, and autonomic balance

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Personalized Feedback using ML

- Adaptive Feedback based on user details
- Continous learning and improvement
- On-Device Inference for Speed & Privacy

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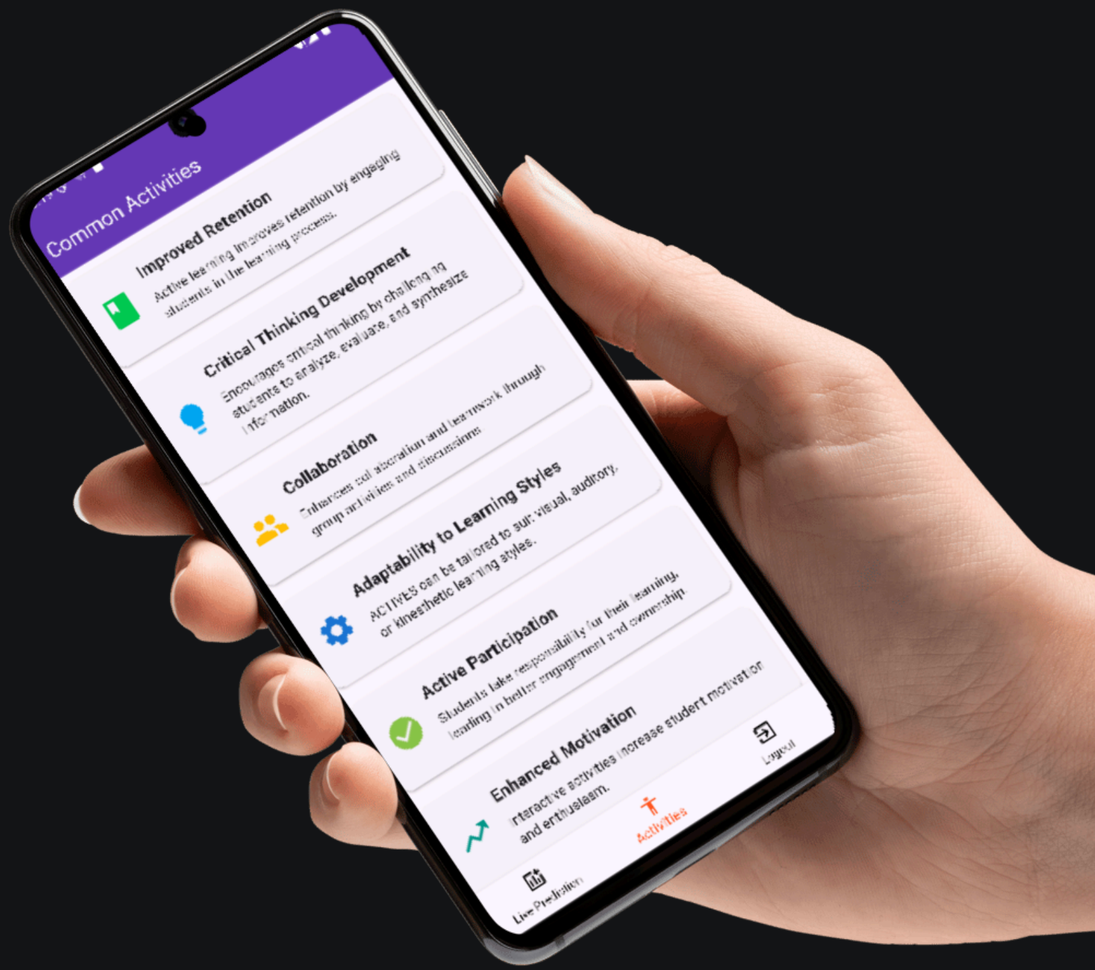
Feedback & Coaching

Personalized Feedback using ML

- ML-based suggestions (e.g., rest, hydration, stress relief)
- Breathing and mindfulness exercises triggered by biometric data
- In-app voice assistant or chatbot for guidance



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