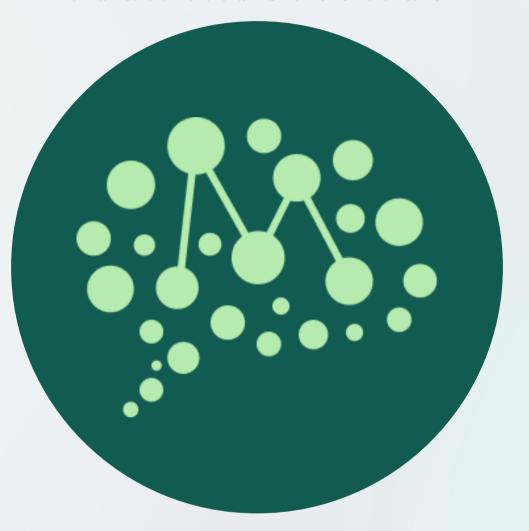
ANITA MAX WYNN



MINDSCAPE

AN ALL IN ONE AI MENTAL HEALTH SOLUTION 2024 March 8th



THE MINDSCAPE TEAM



Sachin Dhami Data Analyst



Ethan Wang
Frontend Engineer



Jennifer Morales
UI/UX Designer



Gagan Singh
Project Manager



Viru Repalle Backend Engineer



Jeff KentSponsor

Thank you Jeff Kent and the Gekko Corporation for sponsoring our project!



PROBLEM CONTEXT

Importance of Preventative Care:

Preventative care is crucial for maintaining overall well-being.

Time Gap and Body Changes:

Changes in the body may go undiagnosed until later.

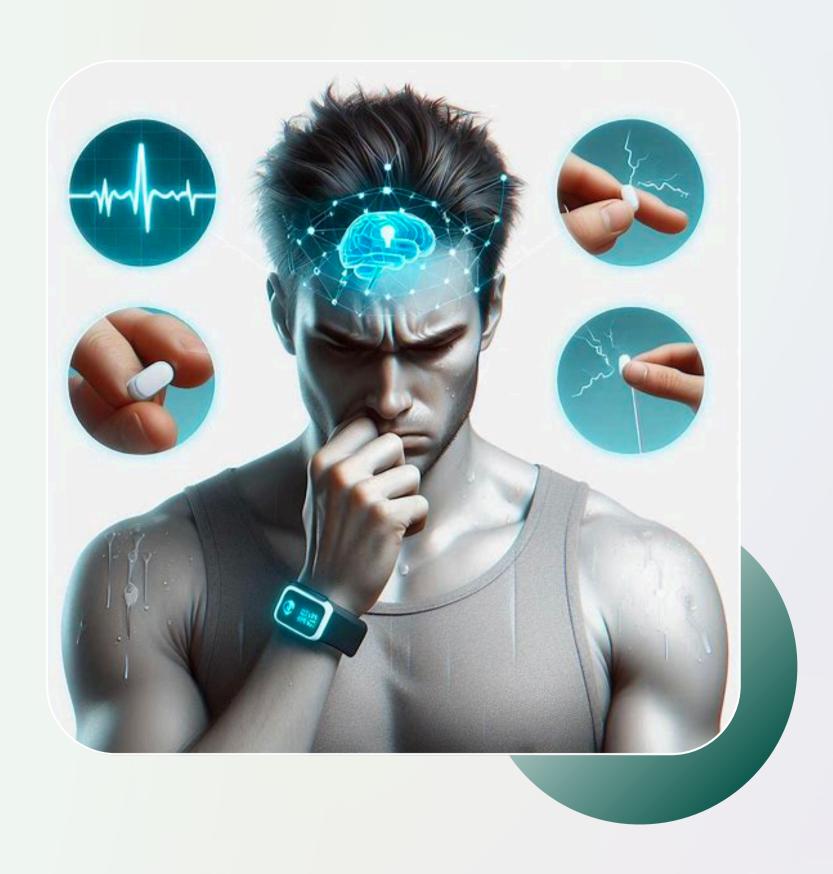
Significance of Early Detection:

- Preventative care aids in early detection.
- Early intervention prevents escalation of minor issues.

Increased Health Awareness:

o Individuals can take steps to manage and improve their health.





Problem Statement

How can the limitations of mental health monitoring, primarily based on subjective self-reporting, be overcome to achieve more accurate and timely insights into individuals' mental wellbeing?

KEY RESEARCH INSIGHTS

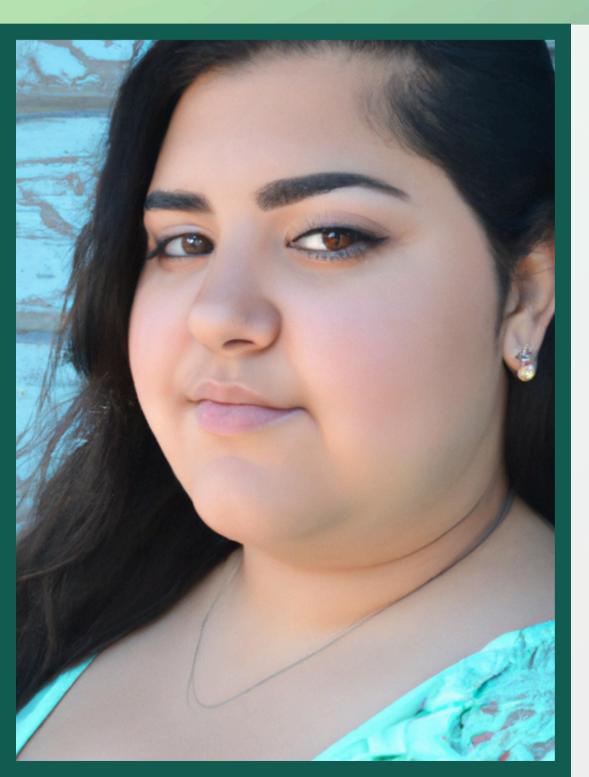
- Al can detect anxiety symptoms with 92% accuracy
- · Adaptive conversational chatbots are developing in the market
- Therapists are turning to AI to help with stretched workloads
- Based on interviews, users seem to have very high overall confidence in capabilities of AI
- There can be serious consequences for incorrect machine learning predictions



PERSONAS



Opal LaFort (she/her)



Age: 24

Education: Journalism from Harvard University

Job: Seeking journalism position

Opal finds it difficult to...

navigate advanced health tracking features on her Apple Watch due to limited tech skills.

She wishes to...

discover an intuitive health-tracking solution that aligns with her needs, aiding her in managing potential health concerns effectively.

Tom Green (he/him)



Age: 40

Occupation: Accountant at a large corporation

Family: Divorced with two children

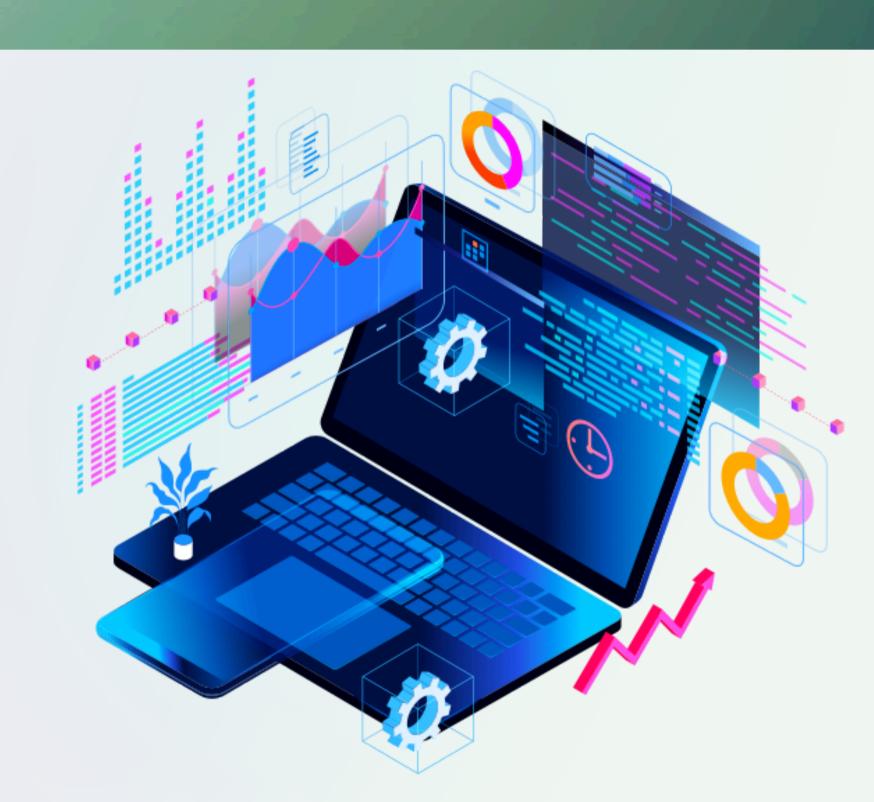
Tom finds it challenging to...

manage stress and incorporate exercise into his routine post-divorce, compounded by his struggle with new technology.

He wishes to...

find a straightforward platform that helps him manage stress, incorporate exercise, and set a healthy example for his family, without feeling overwhelmed by technology.

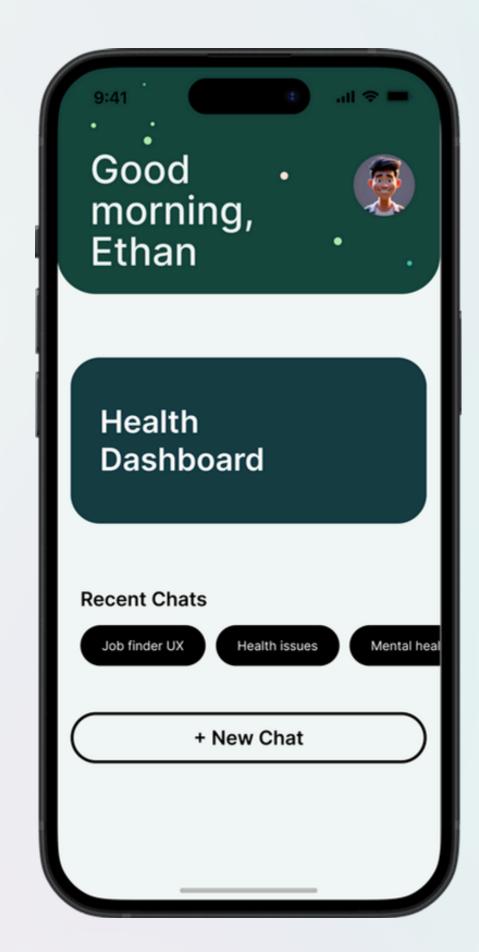
SOLUTION AND KEY FEATURES



MindScape

App/ChatBot

- App connects to the dashboard.
- Chatbot enables
 data analysis via
 conversational text
 using an OpenAl API.

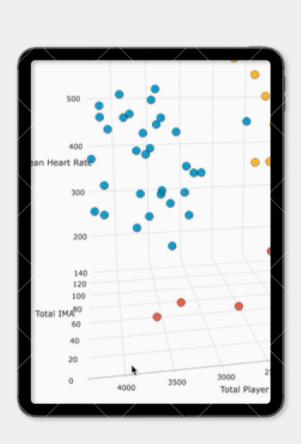




MindScape

Dashboard/ML

Hosted on Splunk





- O1 Data from
 wearable/IoT health
 devices collected
 into a single
 platform
- **02** Data is diagnosed and categorized.

03 Outliers identified by Machine Learning.



User Testing & Validation

- Design is well-perceived by user testing
- A better starting page is needed (loading page to show that the app is launching)
- Design direction derived towards simplicity

Concept Validation

Concepts Validated: layout, user flow, readability

Things we learned from testing

- Data usage transparency
- App confusion
- Chatbot accessibility issue
- Appreciate community



Future direction derived from validation

- Communicate how user data is utilized
- Differentiate app
- Implement speech-to-text
- Establish personal goals in your profile and share them with friends



Ethical Considerations

Our values: accessibility and empowerment

Ethical Concerns

- Soly relying on health apps
- Privacy concerns
- Risk of promoting unhealthy habits

How did we address these potential harms?

- Highlight that the app does not replace professional care
- End-to-end encryption
- Ensure evidence-based health recommendations



Next steps beyond capstone

- Automation
- We recommend checking if accessible technology works well with our app such as screen readers, voice control, etc, and adjusting as needed
- Implementing the ability to upload an image for the user profile
- Handing off our project to Gekko Corporation for implementation of additional features, including a chatbot

Connect with us on LinkedIn



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Sachin Dhami



Gagan Singh



Viru Repalle