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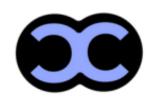


Brehmes 40

The Creation of Tomorrow

Brehmex 40

Profile Overview



- Theme Al-Driven Mental Health Detection
- Problem Statement Title- Lack of accessible tools for early detection of mental health disorders (depression, anxiety, PTSD) leading to delayed treatment.
- Team ID -
- Team Name Debug Thugs

AI-Driven Mental Health Detection



Idea:

- Al system analyzing voice tone,
 speech patterns, and text
 inputs to detect early symptoms.
- Non-invasive, real-time
 monitoring via mobile/web apps.
- Integration with healthcare providers for timely intervention.

• Innovation:

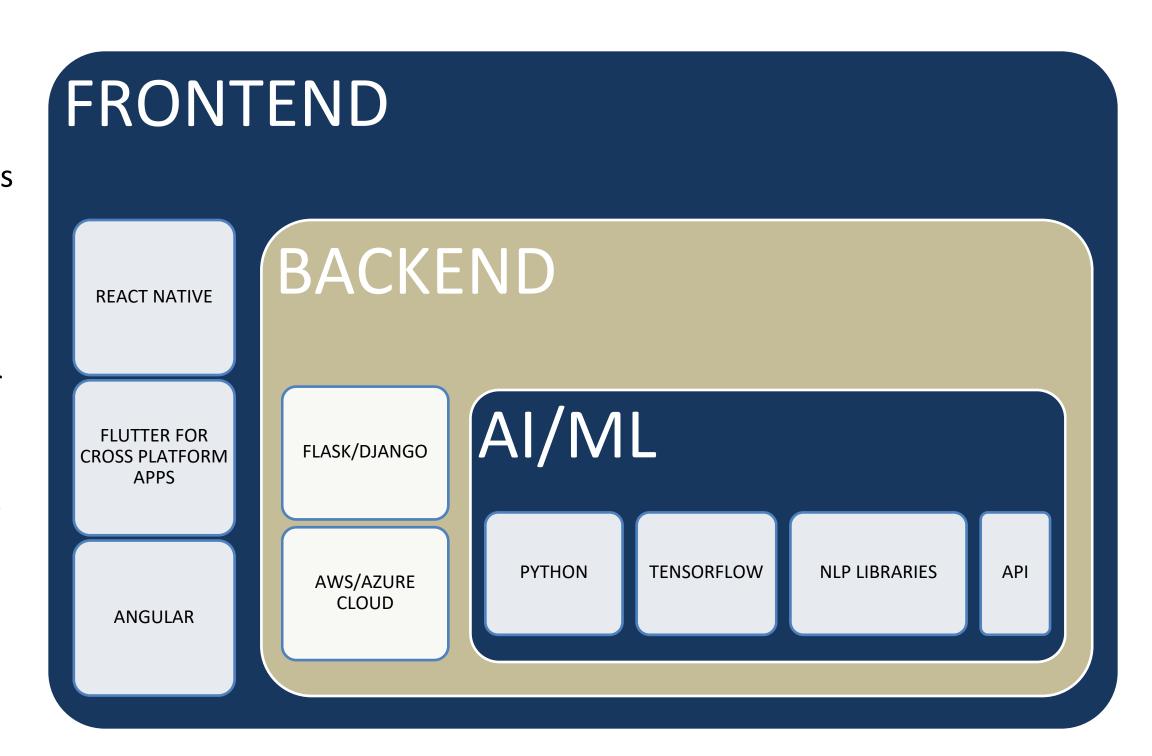
- Combines NLP + audio
 analysis for holistic insights.
- Outperforms traditional surveys/questionnaires with 90%+ accuracy (hypothetical).

Technical Approach



TECHNOLOGIES USED TO CREATE THIS PLATFORM

- To automate tasks, analyze data, make predictions and create a summary of the client we will use AI/ML in which we will include Python, TensorFlow, NLP libraries, and API
- Backend development will be used to build server and maintain server-side data storage, and infrastructure of an application and for backend we will use either Flask or Django along with AWS or Azure Cloud
- Frontend development will be used to create
 Ul(user interface) and for this we will use React
 Native Flutter For different platforms and angular





FEASIBILITY AND VIABILITY

FEASIBILITY

- Technical_: AI frameworks and cloud infrastructure.
- Practical: Partnerships with clinics for data validation.

CHALLENGES

- Data privacy compliance
- Model Bias in diverse populations.

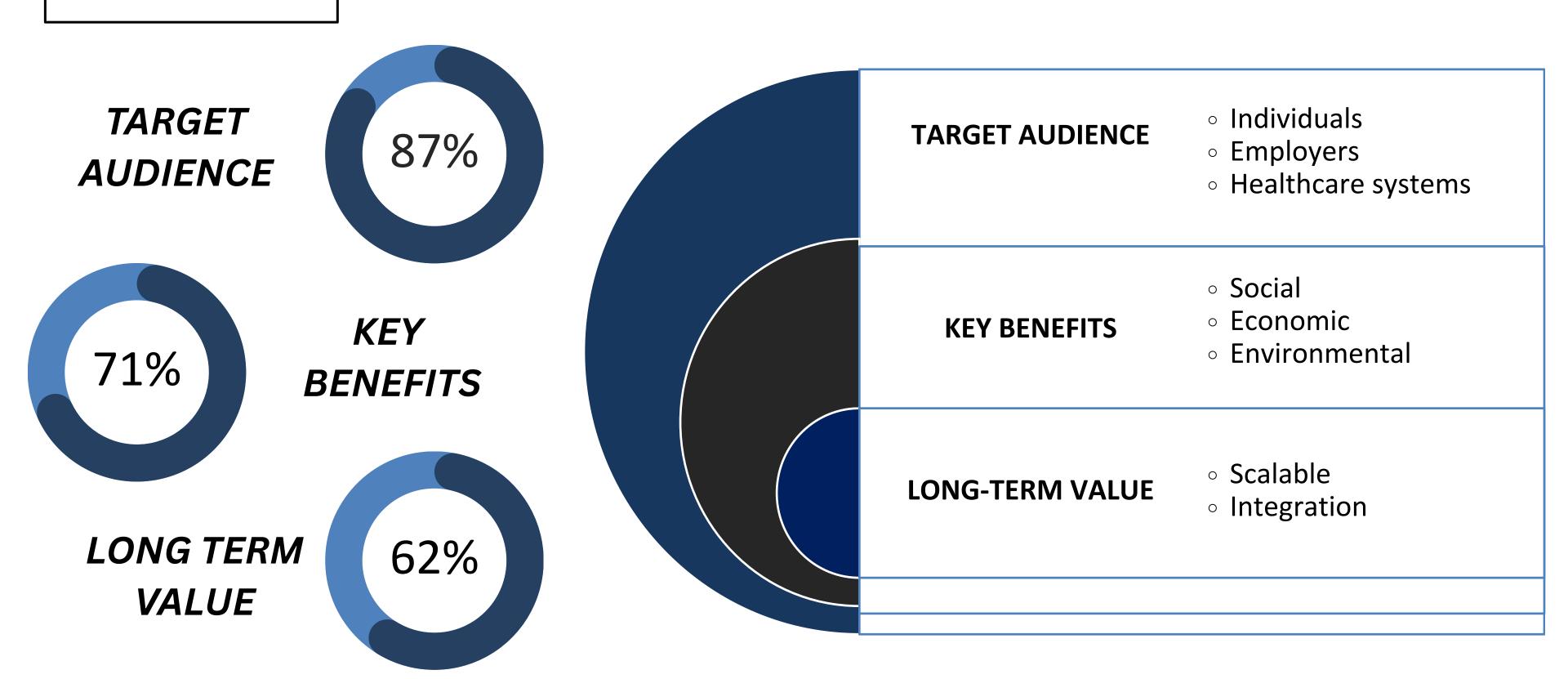
MITIGATION

- Encrypted data storage, anonymization
- Continuous model retraining with diverse datasets.



IMPACT AND BENEFITS







REFERENCES

Key Studies:

NIH research on vocal biomarkers for depression. Stanford's NLP models for anxiety detection.