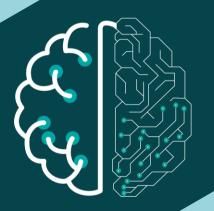


TherapAl
Team TL2K

"Al can help support mental health professionals in doing their jobs. Algorithms can analyze data much faster than humans, can suggest possible treatments, monitor a patient's progress and alert the human professional to any concerns. In many cases, Al and a human clinician would work together."

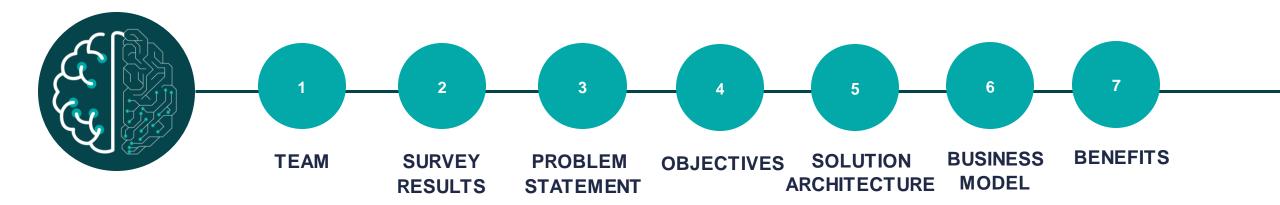
- Forbes



TherapA

TODAY'S AGENDA





THE TEAM





KARTIKEYA LAKHANPAL 24 yo

McGill University
Master of Management in Analytics
NMINS University
BTech in Computer Science



Experiences

Social entrepreneur

EY India

Interests

Tech blogs

Formula 1



TAMAR BULKA 23 yo

McGill University
Master of Management in Analytics
McGill University
BS in Comp. Sci. & Economics



Experiences

Rank Media

Euler Hermes

<u>Interests</u>

Soccer

Foodie

THE TEAM





EXAMPLE GOMES 23 yo

McGill University

Master of Management in Analytics

Boston University

BS in Business Administration



<u>Experiences</u>

DBS bank

Autodesk

Interests

Soccer

Formula 1

Movies & TV shows



LEA SENEQUIER 23 yo

McGill University

Master of Management in

Analytics

HEC Montreal

BBA in Finance



Experiences

Juniper

Pratt & Whitney

<u>Interests</u>

Running

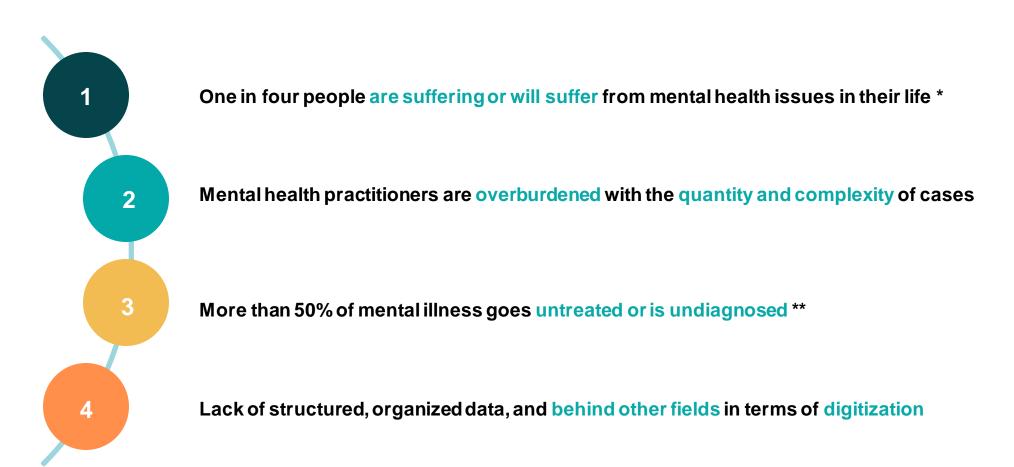
Horse Riding

Health & Wellness

PROBLEM STATEMENT



CHALLENGES FACED BY THE MENTAL HEALTH INDUSTRY



^{*} WHO report, ** Mental illness Policy

SURVEY RESULTS



We contacted and sent a survey to different types of mental health practitioners such as doctors, counselors, and psychologists, and collected the following insights



All respondents stated that they use hand written notes during patients' sessions



70% of respondents said they refer to existing medical literature to gain insights into a patient



All respondents think that there is scope for further digitization in the mental health industry



67% of respondents meet between 35 and 50 patients per week

"A great way to increase accessibility and reduce cultural barriers"

Gabrielle, Social Worker

"This will enable overcoming biases and help practitioners build trust faster with patients"

Ushana, Director of an NGO

"There is always room for improvement in mental health"

Mark, Social Worker

"This tool could be adapted to many type of therapy such as Creative Art Therapy"

Blanche, Family Psychotherapist

OBJECTIVES



1

Digitize data on mental health, creating a resource for future developments and research on the topic

Improve patient tracking platforms for mental health practitioners, enabling them to make diagnoses and treatment plans more efficiently

3

Assist mental health practitioners by recording and processing patient data, enabling them to complete their work more efficiently and attend to more patients

Reduce bias in mental health treatment, and eliminate barriers to communication between physician and patient

.

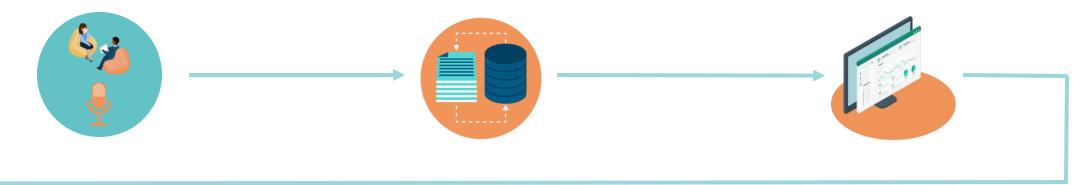
SOLUTION



1. Recording of sessions with patients

2. Automatic transcription and digitalization of sessions

3. Automated dashboard to highlight key features of daily sessions

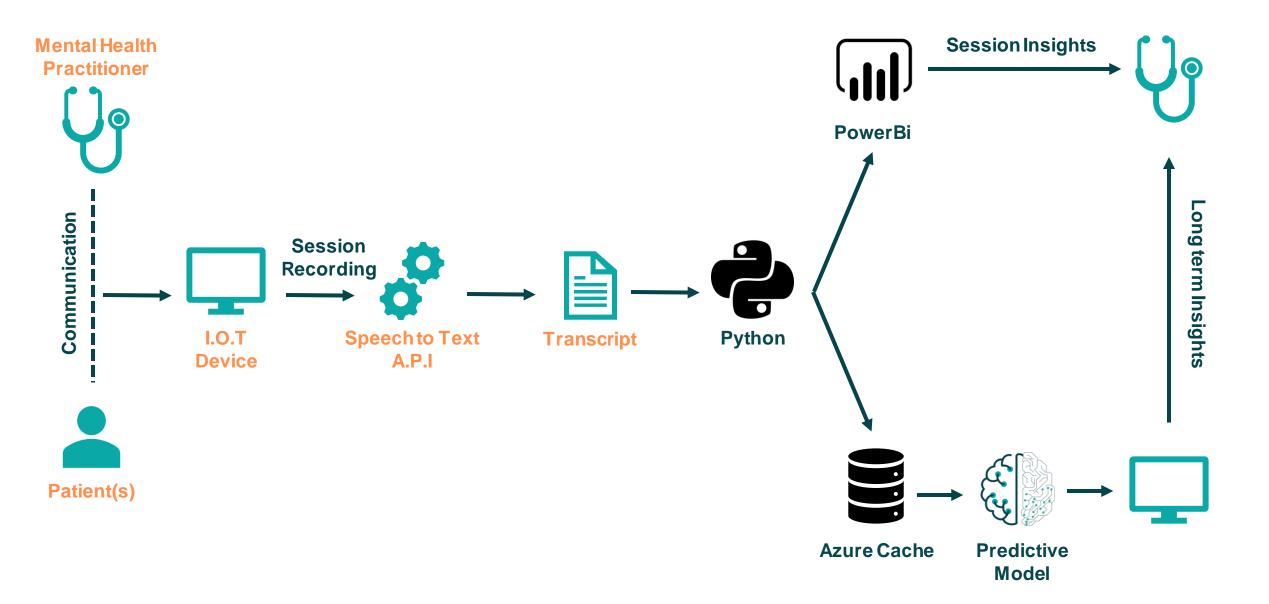




- 4. Automatic dashboard update & trends analysis
- 5. Suggestion of possible interpretation and diagnosis based on the analysis of transcripts
- 6. Increase in the availability of structured data in the mental health field

SOLUTION ARCHITECTURE







Select a session to review

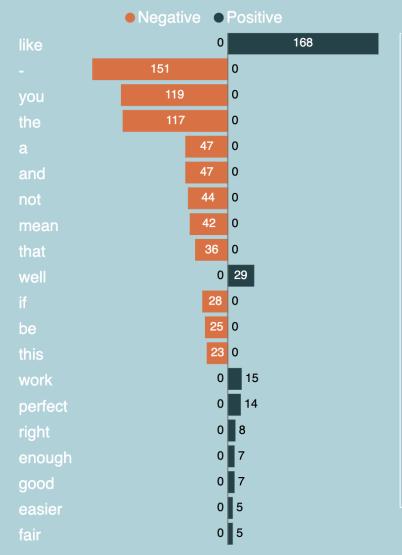
4

Session Duration

47 min

Session Date

28.02.2020



Trend of Sentiments over the Sessions



Prominent Words



Select Type of Word

Adjectives Noun



*Level 18 is the words with Maximum Frequency

*Level 5 is words with Minimal Frequency

BUSINESS MODEL





Key Activities

- Transcribe and dashboard therapy sessions
- Implement NLP to identify patterns in speech and map people with diagnosis



Key Partners

- Microsoft & Azure
- Database owners
- Technology vendors
- Regulatory agencies
- **Investors**



Key Resources

- Azure Platform
- Users/Experts input
- Human capital



Value Proposition

- Improve efficiency and accuracy for practitioners
- Increase accessibility of mental health services



Customer Segments

Mental health practitioners:

- Psychiatrist, Psychologist, Clinical Social Workers. Licensed Professional Counselor
- Hospitals
- School, Universities



Cost Structure

- Database access and security costs
- Computing power
- Azure Platform Subscription

Hiring assistance from medical practitioners in developing model

Revenue Streams

- B2B model: sales to customer segments
- Subscription model for extra features
 - Personalization of the UI for large client and their needs & maintenance

BENEFITS





Mental health patients

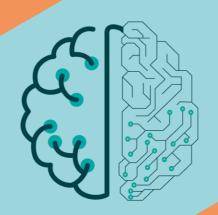


Mental health professionals



- Expedite the diagnosis
 - ✓ Help practitioners see trends they might have missed
 - ✓ Increase objectivity and reduce biases in mental health assessments
 - ✓ Seeing some trends earlier could help the practitioner build trust faster with patients
- Improve diagnosis accuracy
 - ✓ The more patient sessions are recorded, the more efficient the model will become
 - ✓ Reduce cultural barriers between patients and professionals by training models on a diverse dataset.
- Maintain digitized record of the patient which is usually difficult and time-consuming to get

Thank You!



TherapAl