



ARTIFICIAL INTELLIGENCE-EVALUATION

NEXT-GENERATION HEALTH SCREENING

CHRISTOPHER HERRERA MAGANA
X19127723

PROBLEM: Health screening depression in past decades

Inaccurate practice

- Screening test, do not detect lies
- Online test, can be manipulated



Symptoms are not expose

- People hide their feelings
- Lack of concern from society



PROBLEM: Digital skills gap decrease early detection

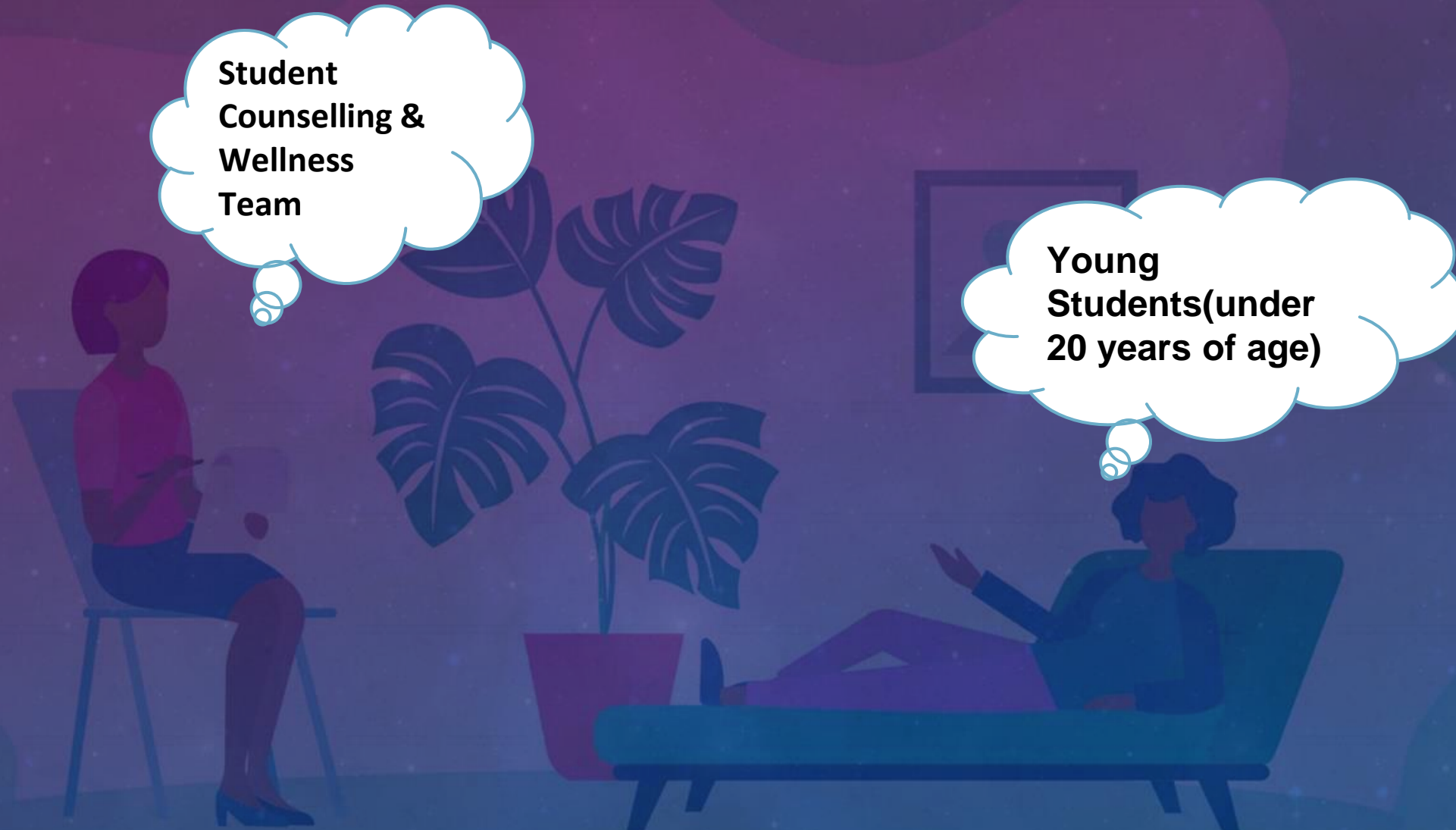
Mental health treatments are expensive and take long to make an appointment.

Inadequate Cloud-based platforms to further mental health analysis.

Lack of monitoring system to prevent suicide.



CUSTOMER SEGMENT: National College of Ireland

An illustration of a counselling session. On the left, a woman with short dark hair, wearing a red long-sleeved shirt and a dark skirt, sits on a light blue chair, holding a clipboard and pen. On the right, a woman with dark curly hair, wearing a blue long-sleeved shirt and purple pants, lies on a blue chaise longue, gesturing with her right hand. Between them is a large potted plant with broad green leaves. The background is a soft-focus indoor setting with a framed picture on the wall.

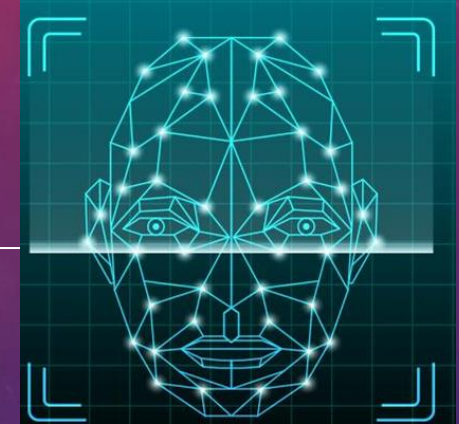
**Student
Counselling &
Wellness
Team**

**Young
Students(under
20 years of age)**

SOLUTION:

SENTIMENT ANALYSIS

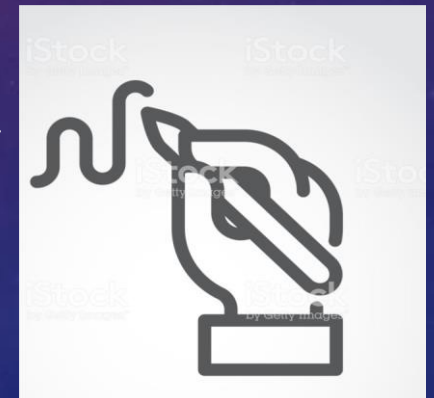
Face Recognition



Voice Recognition



Writing Recognition



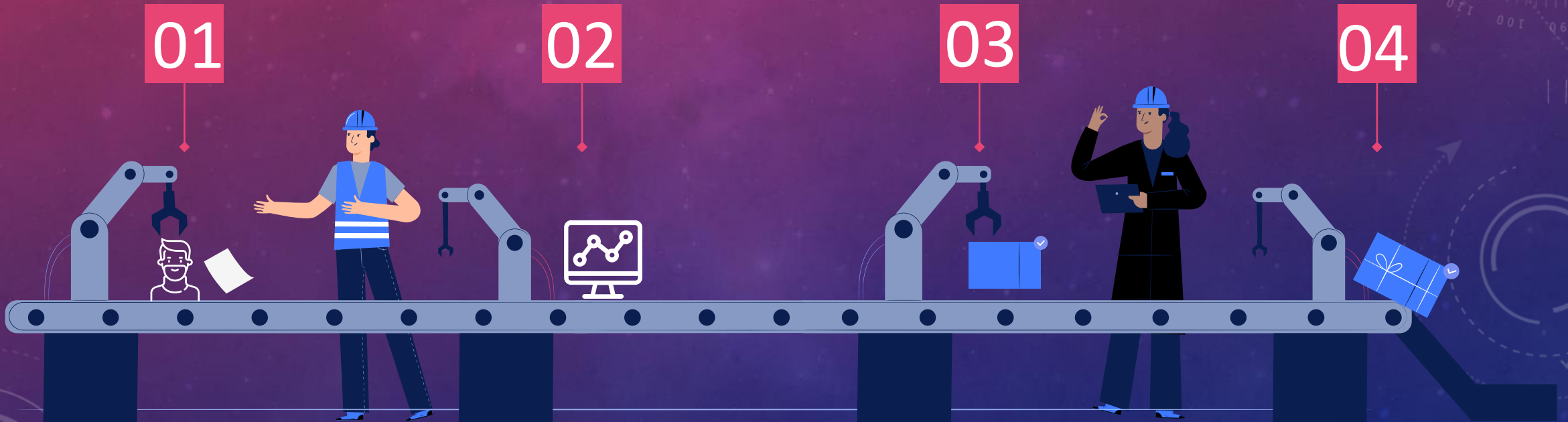
HOW IT WORKS: A COMPLETE MIND INTERPRETATION

Must adhere to GDPR
Compliance to analyse
students behaviour.

Extracting
keywords(voice, face
expression and writing)
associated to
depression.

Classify the student in
severity rankings. Low,
Moderate and Critical.

Notify tutors, parents
and Counselling
Psychologist.



UNIQUE VALUE PROPOSITION:

HELP MORE WITHOUT LOOSING THEM

ARTIFICIAL
INTELLIGENCE

Depression Diagnosis System



BUSINESS MODEL: MONTHLY SUBSCRIPTION

FREEMIUM

- Basic subscription per one month.

BASIC

- Student Monitoring Dashboard
- Add up to 50 students monitoring
- 10 students analysis per hour
- 5 emergency contacts alarms
- Weekly improvement reports
- Session with a Counselling Psychologist.
- Business day email-support

€ 100

PRO

- Includes BASIC features plus
- Add up to 250 students monitoring
- 100 students analysis per hour
- Daily behaviour reports
- Smartphone application
- 24/7 email/phone support
- Students analysis backups

€ 150

PREMIUM

- Includes PRO features plus
- Add up to 350 students monitoring
- 150 students analysis per hour
- Real-time behaviour monitoring
- Smartphone application
- Critical response 15 minutes email/phone support

€ 250

Every extra student 0.5 euro

CHANNELS:

SOCIAL NETWORK



WORD OF MOUTH



KEY METRICS:



COMPETITION ANALYSIS:

Competitors

Paper/Online

Personal

Artificial
Intelligence
Analysis

Face, Voice
and Writing
Analysis

Our Solution



Woebot



App
chatbot



Wysa



App
chatbot



Aware.ie



COST STRUCTURE: PLATFORM COST

SERVICES AMAZON WEB SERVICES	COSTS	TIME
AWS EC2 on demand t3.small Server Linux Machine Webpage	€ 16.42	Monthly
AWS EBS 30GB (gp2) Volume	€ 3.30	Monthly
AWS EBS Snapshot 30GB	€ 1.50	Monthly
AWS Rekognition Face Recognition 1000 images	€ 1.00	Per 1000 Images
AWS Rekognition Face Recognition 1 hour video	€ 6.00	Optional
AWS Polly Text Analysis 1 Million Characters	€ 4.00	Per Million Characters
AWS Transcribe Voice Recognition 1 Hour	€ 4.50	Per Hour
Business Flayers	€ 44.50	Per 250 Flayers
TOTAL COST OF INFRASTRUCTURE	€ 81.22	Per 400 users

Return of Investment

BASIC	PRO	PREMIUM
€ 16.42	€ 68.78	€ 168.78 per
€ 175 euros per 350 Users added	€ 75 per 150 Users added	€ 25 per 50 Users added
Total per 400 users € 191.42	Total per 400 users € 143.78	Total per 400 users € 193.78

AWS CLOUDWATCH CUSTOM METRICS PRICE

100,000 instances 24/7 for a month \approx 2M per year

PRICE TABLE

Operation	Result
Total number of metrics = 5 metrics*100,000 instances	500,000 metrics
First 10,000 custom metrics @\$0.30 per metric	\$3,000
10,001 to 250,000 custom metrics @\$0.10 per metric	\$24,000
250,001 to 500,000 custom metrics @0.05 per metric	\$12,500
Total number of API requests	432,000,000,0
First 1,000,000 API requests	\$0
1,000,001 to 440,640,000 API requests	\$43,210
MONTHLY COST CLOUDWATCH CHARGES	€ 82,710

Tiers	Cost (metric/month)
First 10,000 metrics	\$0.30
Next 240,000 metrics	\$0.10
Next 750,000 metrics	\$0.05
Over 1,000,000 metrics	\$0.02



THANKS!