# WeCare

**Mental Illness Classifier** 

#### Team

Ayush

Chetan

Shi

Suprith

Yu-Han

#### **Statistics**

1 in every 4 college students suffer from mental illness. (Healthline)

44% of college students report having symptoms of depression.

75% of college students do not seek help for their mental health problems.

Nearly 60% of adults with a mental illness didn't receive mental health services.

#### **Problems**

Mental illness

Expensive healthcare

#### Solutions

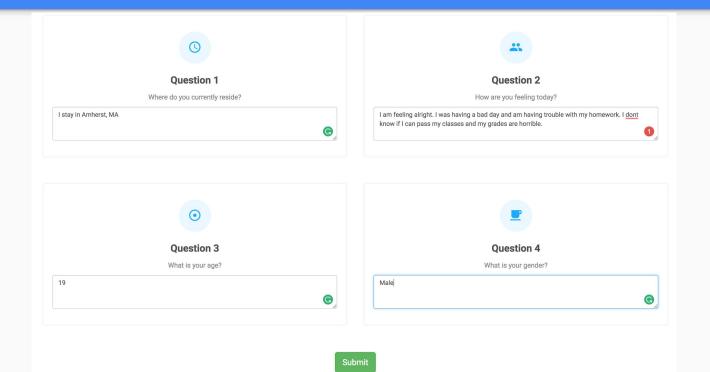
Figure out if the patient suffers from a mental illness



Diagnose the illness Send appropriate healthcare solutions

## Procedures

### Step 1: User answers four questions



Location Feeling Age Gender

#### Step 2: Multinomial Naive Bayes Classifier

Data: comments from Reddit, Mental health forums (with labels)

Labels: Depression, PTSD, PPD, ADHD

	precision	recall	fl-score	support
adhd	0.72	0.64	0.68	28
depression	0.71	0.83	0.76	47
ppd	1.00	0.60	0.75	5
ptsd	0.65	0.59	0.62	29
avg / total	0.71	0.71	0.70	109

### Step 3: Diagnosis

#### **Analysis of Results**

Comment made by user: I am feeling alright. I was having a bad day and am having trouble with my homework. I dont know if I can pass my classes and my grades are horrible.

Disorder predicted using Naive Bayes is : depression Precited mental disorder from comment : **Depression** 

#### **Useful Coping resources**

http://www.health.com/health/gallery/0,,20521915,00.html

http://studentsagainstdepression.org/

https://www.huffingtonpost.com/2011/08/25/websites-for-coping-with-depression n 935721.html

https://www.goodtherapy.org/blog/best-depression-websites-2015-1228154

## Step 4: Nearby Clinics Information

#### Don't worry, help is nearby!

Below are a few providers near you that can provide assistance:

· Name: Natalie Zervas

Practice Name: Address: 593 Eddy St

Providence, RI 02903 Phone: 4014444318

Biography: Dr. Natalie Zervas, PHD PSY sees patients in Providence, Rhode Island and specializes in psychology. Dr. Zervas is licensed to practice medicine at Rhode Island. In addition to having active medical licenses, Dr. Zervas has successfully passed a background check including a medical license verification (active) and screening for malpractice history (none found).

· Name: Vivian Perez.

Practice Name: Address: 850 Harrison Ave

Boston, MA 02118 Phone: 6174144238

Biography: Dr. Vivian Perez, PHD practices medicine at Boston, Massachusetts, specializing in psychology. Dr. Perez is licensed to treat patients in Massachusetts. In addition to having active medical licenses, Dr. Perez has passed an automated background check which looked at elements including medical license status and malpractice screening (no history found).

· Name: Dara Manoach

Practice Name: Address: 55 Fruit St

Boston, MA 02114 Phone: 6177268320

#### How are we different?

Open-ended questions

Free and real-time diagnosis

## Thank you!

We care your health