

Depression awareness Chatbot

Assignment 3

Group 12
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Why That Bot

- Depression is a common illness worldwide, with an estimated 3.8% of the population affected, including 5.0% among adults and 5.7% among adults older than 60 years.
- Approximately 280 million people in the world have depression.
- It can cause the affected person to suffer greatly and function poorly at work, at school and in the family.
- At its worst, depression can lead to suicide.
- Over 700 000 people die due to suicide every year.
- Suicide is the fourth leading cause of death in 15-29-year-olds.

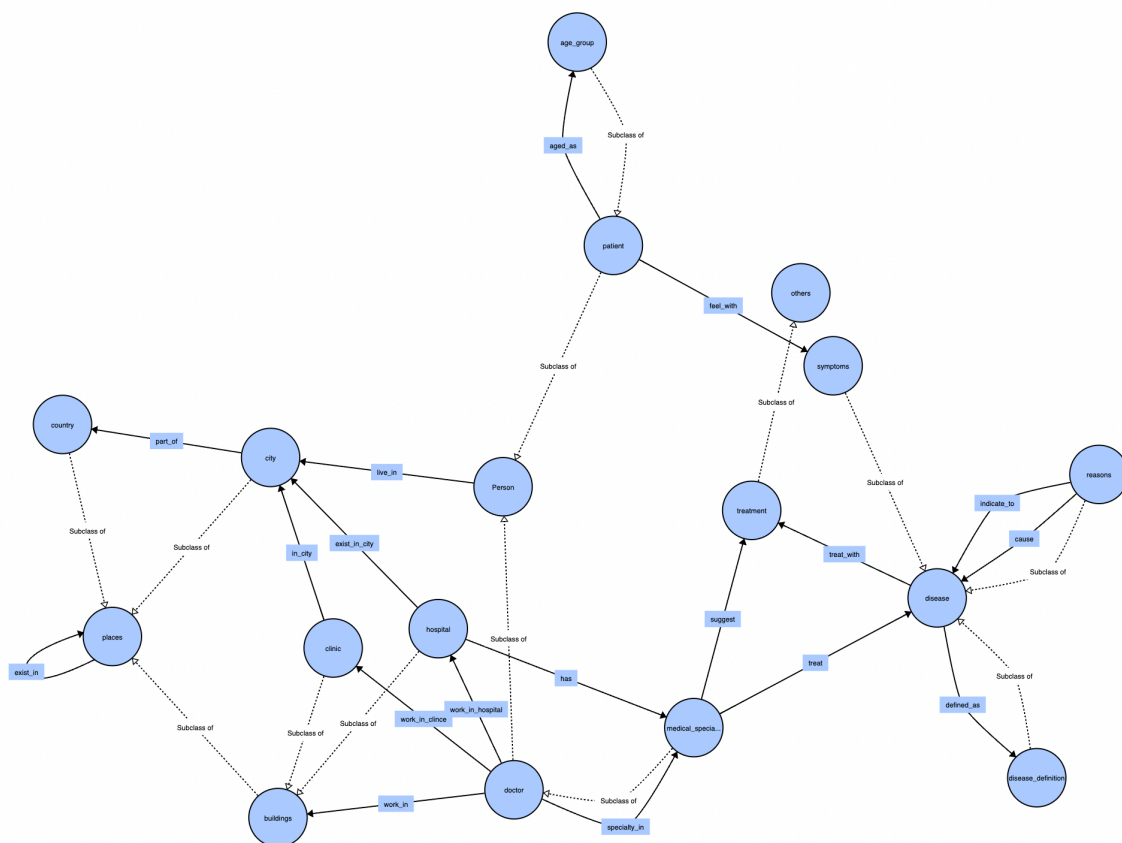
Our Bot Moral

Our bot try to provide awareness against depression in order to reduce that world crisis, and safe life as possible.

Ontology

The knowledge structure designed to relate between patient and his feelings, the diseases and symptoms, doctors and medical specialty in order to find the relationships between symptoms, and associate the different diseases together, so we will be able to find

the common consequences and what's the medical specialties that can help in treatment, also here we relate the regions, clinics, hospitals, that have those medical specialties with the patient location to be able to suggest doctors or places for helping, or offer an emergency help in crisis.



Challenging Questions

Six questions have been chosen to evaluate the bot's knowledge, and check if it is capable to recognize the meaning and reply with suitable answers.

- What are the symptoms of depression?
 - what makes depression increase.
 - what causes depression.
 - depression reason.
 - symptoms of depression .
 - what's the depression symptoms
- Which age group has the highest rate of depression?
 - what age group more affected by depression?
 - what age group more affected by depression?
 - Which age group has the highest rate of depression?
 - Age and depression.
- What is depression?
 - Depression.
 - How doctors say about depression?
 - Depression definition.
- Failing in life.
 - There is nothing I can do well.
 - Nothing I do is right.
 - I definitely will fail in my life.
 - I will never succeed in life.
- Depression and long working hours.
 - Work and depression.
 - Work extra hours.
 - Work under pressure work pressure.
- Can a lack of sleep cause depression?
 - How hang at night and sleep in morning effect depression?
 - Oversleeping and Depression.

Training with Dialog flow

Data has been collected from many resources, WHO, and some datasets from Kaggle, in addition to some mental health websites FAQs, then using those datasets we build base knowledge and intents on Dialog flow, and throw testing we found some drawbacks, but after many enhancement iterations, we had a acceptable version.

Intents

CREATE INTENT

- adults Depression symptoms
- At what age does anxiety peak?
- bullying
- Can a lack of sleep cause depression?
- Can lack of sleep make you feel sad?
- Can low blood sugar cause suicidal thoughts?
- Can people with mental illness recover?
- CourtesyGoodBye
- Default Fallback Intent
- Default Welcome Intent
- depression disappointed
- depression down_feeling
- depression exhausted
- depression feeling_anxious
- depression feeling_bad
- depression feeling_losing_mind
- depression feeling_sadness
- depression hating_himself
- depression leaving the country_runaway
- depression motivation

Knowledge Bases

CREATE KNOWLEDGE BASE

Search knowledge bases

Mental Health

quest

○ Link of chatbot <https://bot.dialogflow.com/6618e1d2-1025-4704-8716-13996cd33081>

• Which age group has the highest rate of depression?

This number represented 7.1% of all U.S. adults. The prevalence of major depressive episode was higher among adult females (8.7%) compared to males (5.3%). The prevalence of adults with a major depressive episode was highest among individuals aged 18-25 (13.1%).

• age and depression

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what make depression increase

depression may occur only once during your life, people typically have multiple episodes. During these episodes, symptoms occur most of the day, nearly every day and may include: - Feelings of sadness, tearfulness, emptiness or hopelessness. - Angry outbursts, irritability or frustration, even over small matters. - Sleep disturbances, including insomnia or sleeping too much. - Feelings of worthlessness or guilt, fixating on past failures or self-blame.

• what is depression

Depression is a mood disorder that causes a persistent feeling of sadness and loss of interest. Also called major depressive disorder or clinical depression, it affects how you feel, think and behave and can lead to a variety of emotional and physical problems.

• how doctor say about depression

If you feel depressed, make an appointment to see your doctor or mental health professional as soon as you can. If you're reluctant to seek treatment, talk to a friend or loved one, any health care professional, a faith leader, or someone else you trust.

• what's the depression symptoms

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Weaknesses

- Inability to diagnose the disease, the main goal is to raise awareness against depression.
- Inability to suggest doctors contacts, or hospitals.
- The responses depend on the immediate expression, no accumulated knowledge awareness.

Thank you.