**Chatbot for Social Cause**

Introduction:

In today's world, even small problems are seen in terms of mental health. Whether it's feeling stressed out or going through big changes, people are starting to understand how important it is to take care of their mental well-being. But not everyone can easily get help when they need it. That's where our chatbot comes in. It's like a friendly helper that's always there to listen and give advice. Let's talk about how this chatbot is making it easier for everyone to get the support they need for their mental health.

Problem Statement:

Chatbots are one of the oldest and one of the most advanced technologies in AI and have taken the digital world by storm. Chatbots are used by all modern businesses, governments, and other organizations and individuals to power conversations and enhance and scale up customer engagement. Through this project, students receive hands-on exposure to building and integrating Chatbots with Python. This is one of the most in-demand skills of the decade.

Goals and Objectives:

A mental health support system helps people who feel upset or troubled by giving them various kinds of help like talking to someone or taking medicine. Its main goals are to make sure no one feels ashamed about needing help, to help people feel better, and to support them in living happier lives. By offering various kinds of support and creating a friendly atmosphere, the system wants to help everyone get the help they need. Collaborating with doctors, leaders, and communities, it aims to make sure everyone can find the support they need to feel better and lead better lives.

Approach:

To make this chatbot accessible worldwide, it had to be made on an application that was available worldwide, which is why we chose Telegram.

A screenshot of a group of cell phones

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The process to make the bot is easier than it seems. First, have to search for @BotFather with a verified mark.

A screenshot of a computer

Description automatically generated

A blue and white text with a check mark

Description automatically generated

When starting the conversation with the @BotFather, it gives us different options on what we want to do and use it for.

A screenshot of a computer

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After creating the bot, we have to use Python to instruct the bot. To do that, first, we must install python-telegram-bot in the system.

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After installing, we must use the API token given by the @BotFather for the chatbot to use it in the code. This helps us to control what the bot would say when conversing with the user.

A screen shot of a computer

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A screen shot of a computer

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As this code is written in Google Colab, we must run each code cell one by one and after all the cells are run once, we have to check whether the commands that were given in Python were able to run smoothly in the telegram chatbot.

A screenshot of a computer

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This shows that our code is successfully working.

Result and Conclusion:

This shows that our chatbot is doing a good job and is ready to help people who need it. By providing reliable support, our chatbot helps improve mental health and lessen the impact of mental health issues on individuals and communities. These good results highlight how important it is to use technology to support mental health. Our chatbot is a useful tool for raising awareness about mental health, offering help early, and creating a supportive atmosphere for people facing mental health struggles. It proves that using new ideas can make mental health care better and make life better for everyone.

References:

<https://chat.openai.com/>

<https://colab.research.google.com/>

[About ChatterBot — ChatterBot 1.0.8 documentation](https://chatterbot.readthedocs.io/en/stable/)

<https://youtu.be/Gs4mD_p5AQQ?si=tIaSldTAP7HjTKVo>

<https://youtu.be/vZtm1wuA2yc?si=Qrb5MgNOnnjpsbx7>

<https://youtu.be/227uk4kDTM8?si=_LiCr-sZXzCToGj8>

<https://youtu.be/9oHtZz3pHkg?si=yrXi78k3Mz2h8InJ>

<https://app.grammarly.com/>

<https://keep.google.com/>

<https://web.telegram.org/>

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