**REPORT**

**ABOUT PROJECT**

I have designed a Chatbot named Chatty. A software program developed using python and artificial intelligence concepts which allows the conversation with the user by speech or by text. My chatbot can be used for small talk, as well as to answer some mathematical questions. In connection with the coronavirus and many questions on this disease. The chatbot can answer all the user queries and keep them informed and updated.

The chatbot is built using the python chatterbot library, which is a machine learning-based conversational dialog engine. The GUI of the chatbot is built using the Tkinter library.

The speech recognition library is used to get the response from the bot in the form of speech.

The dataset is taken from the frequently asked question and answer section of the WHO website.

The chatbot can also perform some necessary mathematical calculations.

**SOURCES OF LEARNING**

I write the source code for the chatbot from scratch after learning about the python chatterbot library and its function from the document -<https://chatterbot.readthedocs.io/en/stable/chatterbot.html>.

I understood the concept of how to train the bot, use of the adapter class, and how to link the data file to train your chatbot after going to this official python doc.

To design the GUI for the chatbot, I have read about the Tkinter library from - <https://docs.python.org/3/library/tkinter.html>

For speech recognition feature visit-<https://pypi.org/project/SpeechRecognition/>

**BASELINE SCORE AND MY CONTRIBUTION**

The complete source code is my original contribution, which I implemented after learning about these libraries from python official documentation.

According to which I would like to give myself the **baseline score of 1** on the scale of 0.6-1