

# TITLE: CHATBOT USING PYTHON

## NAME OF GRP MEMBERS:

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## ABSTRACT:

Chatbot has become more popular right now. Chatbots are programs that work on Artificial Intelligence (AI) & Machine Learning Platform. Natural language processing enables a bot to converse in the most natural manner possible. In this project, we provide the design of a chatbot, which provides a genuine and accurate answer for any query.

## INTRODUCTION:

A chatbot is a software application designed to simulate human conversation, often using natural language processing and artificial intelligence techniques. It interacts with users through text or speech, providing automated responses and assistance for tasks ranging from answering questions to performing specific actions.

## METHOD:

We used Jason file for loading data and we used libraries like pickle, NumPy, TensorFlow, and nltk. We used tensorflow flow to train our model and nltk is used for natural language processing. We used pickle to get data and data processing in sequence.

**Circuit details:** No circuit (code-based project)

**Status:** Working/ Not working: Working

## RESULT:

```
C:\windows\system32\cmd.exe x + v
Microsoft Windows [Version 10.0.22621.2283]
(c) Microsoft Corporation. All rights reserved.

C:\Users\vaish>D:

D:\>cd D:\Projects_python\chatbot2

D:\Projects_python\chatbot2>python chatbot.py
2023-09-20 11:19:59.531938: I tensorflow/core/platform/cpu_feature_guard.cc:182] This TensorFlow binary is optimized to use available CPU instructions in performance-critical operations.
To enable the following instructions: SSE SSE2 SSE3 SSE4.1 SSE4.2 AVX AVX2 AVX_VNNI FMA, in other operations, rebuild TensorFlow with the appropriate compiler flags.
GO! Bot is running!
Hello
1/1 [=====] - 0s 63ms/step
Hello
Tell me about NMIMS college.
1/1 [=====] - 0s 22ms/step
NMIMS college is located in Mumbai, Hyderabad, and Shirpur.
thanks
1/1 [=====] - 0s 16ms/step
You're Welcome
Nice chatting to you
1/1 [=====] - 0s 16ms/step
Bye! Come back again soon.
```

**REFERENCE:** GitHub