SHAIK AADAM INNU

≡ MENU

AI AND ML CHATBOT…

BASIC ARTIFICIAL INTELLIGENCE CHATTER BOT… USING MACHINE LEARNING…

SO COMING TO THE TUTORIAL OF HOW TO CREATE A CHAT BOT WITH EVEN A MINIMAL BASIC KNOWLEDGE OF PYTHON IS BELOW

SO LETS START FROM HERE …

WHAT YOU NEED TO DO IS…

1.INSTALL A PYHTON IDLE FROM THE OFFICIAL WEB SITE PYTHON

https://www.python.org/downloads/release/python-363/

FROM THE ABOVE LINK

INSTALL IT …

AND A LITTLE NOTE TO REMIND!!!

WHILE INSTALLATION YOU NED TO TICK THE BOX WHILE YOU SEE THE ACCEPT BOX …

SO YOU WONT HAVE TO FACE A PROBLEMS TO INSTALL THE PIP FILES IN FUTURE

NOTE:

IF YOU WANT TO CREATE A CHAT BOT YOU ONLY NEED TO HAVE INSTALL THE PYTHON VERSIONS OF 3.6……AND 2.7…..

BECAUSE PYTHON HAVE ONLY GIVEN THE ACCESS TO USE AI LIBRARIES IN 3.6 AND 2.7..

AS COMING TO THE VERSIONS OF 2.7 AND 3.6…

I WOULD RECOMMEND TO USE 3.6 ONLY BECAUSE AS PER THE NEWS OF TECH I HEARD 2.7 VERSION WONT BE ABLE TO USE FURTHER AND WONT BE ABLE TO PRODUCE TH LIBRARIES…

SO HERE I GUESS U MIGHT HAVE GOT THE IDEA OF INSTALLING THE VERSION OF PYTHON AND ITS VERSION WITH TICKING THE SET PATH BOX OPTION…

2.INSTALL THE PACKAGES USING PIP…

IF YOU DONT HAVE A PIP FILE IN YOUR SYSTEM INSTALL PIP FIRST IN YOUR SYSTEM

3.LIST OF PIP FILE YOU NEED TO INSTALL IN YOUR SYSTEM

- pip install ChatterBot
- pip install pyaudio
- pip install pyttsx3
- pip install pywin32
- pip install SpeechRecogniton
- pip install ListTrainer

AS FAR I REMEMBER I GAVE YOU THE PIP FILES IF NEEDED EXTRA PLS

HELP YOUR SELVES USING INTERNET;)

GOING TO THE NEXT PART OF THE ML (MACHINE LEARNING) CHATTER

BOT…

4.MAZA ABB AYEGA …

NOW THE CODING PART STARTS

1.from chatterbot import ChatBot

WILL IMPORT THE CHATTERBOT LIBRARIES

2.from chatterbot.trainers import ListTrainer

WILL IMPORT THE LIST TRAINERS THAT WILL TRAIN YOUT DATA THAT YOU GIVE IN YOUR NOTE PAD …..

YES YOU READ THE ABOVE LINE CORRECTLY…;)

U WILL BE GIVING THE DATABASE IN YOUR NOTE PAD…FURTHER YOU WILL COME KNOW HOW….

3.import os

WILL IMPORT YOUR OS IN THE PYTHON PROGRAM ….

4.bot=ChatBot('innu')

GIVE YOUR CHAT BOT A NAME …IN MY CASE I HAVE GIVEN MY CHAT BOT NAME D AS INNU …(MY NICK NAME)

5.conv=open('C:\Users\DELL\Documents\protrex_machine_learning\chatinnu.txt','r')

THE "CONV" CONSIDER IT AS THE VAR THAT I AM STORING THE THE DATA BASE THAT IS BEEN GIVEN TO THE AS THE QUESTION AND ANSWERE IN THE NOTE PAD,*"C:\Users\DELL\Documents\protrex_machine_learning\chatinnu.txt"* THIS MY LOCATION AND NAME OF THE FILE……,,,"r" is to read,"readlines()"

is to read line of the note pad AS SAID THE DATA BASE IS GIVEN AS A FORMAT
AS

#WHAT IS MY NAME?

@MY NAME IS INNU SHAIK AI ML CHAT BOT CREATED BY
YOUNUS SHAIK

AS CONTINUES…….. Q&A SHOULD BE WITH IN THE PAIR FIRST THE
QUESTION AND NEXT IS ANSWERE FOR IT….

6.bot.set_trainer(ListTrainer)

"set_trainer" is of from list trainer library to train the data for the bot

7.bot.train(conv)

HERE YOU WILL BE TRAINING THE DATA AS FIRST WE GAVE THE
DATABASE NAME WITH VAR NAME OF "CONV"

SO HERE WE TRAIN THAT DATA WITH "bot.train(conv)"

8.

while True:

message=input('younus:').lower()

if message.strip()!="bye":

reply=bot.get_response(message)

if reply.confidence>0.7:

print('INNU:',reply)

#print(reply.confidence)

if message.strip()=='bye':

print('INNU:nice to meet you,bye')

break

HERE THE FORMAT IS WRONG I'LL GIVE YOU THE CODE AT

LAST JUST THIS IS FOR EXPLAINATION….

SO WE ARE WE ARE RUNNING THE ENTIRE PROCESS IN WHILE LOOP JUST TO NOT BREAK THE FLOW OF REPEAT UNTIL WE BREAK THE LOOP BY SAYING BYE….

COMING TO ABOVE CODE EXPLAINATION….

message=input('younus:').lower()

HERE WE ARE GIVING THE INPUT i.e QUESTION …AND THE INPUT WHAT EVER YOU GIVE WILL BE CONVERTED INTO THE LOWER CASE AS PYTHON IS CASE SENSITIVE SO ITS NECESSARY TO CONVERT THE DATA IN FORMAT OF LOWER CASE ,,,,WHAT EVER YOU GIVE INPUT IT CHANGES INTO LOWER CASE;) AND STORED IN THE VARIABLE OF"message"….

if message.strip()!="bye":

reply=bot.get_response(message)

HERE WE USE IF CASE …

IF YOUR INPUT MESSAGE IS NOT AS"bye"… THEN YOUR BOT GIVES THE RESPONSE TO YOUR INPUT GIVEN MESSAGE AND WHICH WE SETTED IN THE FORM OF REPLY…

if reply.confidence>0.7:

print('INNU:',reply)

#print(reply.confidence)

HERE ANOTHER IF CASE JUST TO GIVE RESPONSE IF YOUR GIVEN
QUESTION AS INPUT MATCHES THE QUESTION YOU PROVIDED IN THE
DATABASE AS IN THE NOTE PAD THE YOUR REPLY WILL STORE IN "reply"
AND GIVES YOU ANSWERE……..

AND YOUR ANSWERE WILL BE PRINTED …….

"print('INNU:',reply)"

HERE IN reply YOUR ANSWERE IS STORED WHICH GIVES YOU OUTPUT……

if message.strip()=='bye':

print('INNU:nice to meet you,bye')

break

HERE ANOTHER ANOTHER IF CONDITION ….

IF YOUR GIVEN INPUT IS EQUAL TO "bye" THEN YOUR PROGRAM PRINTS

nice to meet you,bye

AND FINALLY THE LOOP BREAK IT LOOP LOOP LOOP ::))HEHEHE

AND FINALLY AS PROMISED THE FINAL CODE IS BELOW JUST TO CREATE A BASIC NORMAL CHATBOT

```python
from chatterbot import ChatBot
from chatterbot.trainers import ListTrainer
import os
bot=ChatBot('innu')
conv=open('C:\Users\DELL\Documents\protrex_machine_learning\chatinnu.txt','r').readlines()
bot.set_trainer(ListTrainer)
bot.train(conv)
while True:
    message=input('younus:').lower()
    if message.strip()!="bye":
        reply=bot.get_response(message)
        if reply.confidence>0.7:
            print('ChatBot:',reply)
            print(reply.confidence)
    if message.strip()=='bye':
        print('ChatBOt:nice to meet you,bye')
        break
```

SORRY THE ABOVE CODE IS IMAGE HEHEHEHEHE 😉

THIS IS JUST A BASIC BASIC CHAT BOT KID U CAN CREATE EVEN BETTER IF UNDERSTAND THIS…..

***AS YOU GUYYS MIGHT HAVE BEEN THINKING I MENTIONED MANY PIP FILES ABOVE TO INSTALL….

BY INSTALLING THAT PIP FILES YOU CAN CREATE A BASIC BETTER CHAT BOT THAN THIS …

WHERE YOU CAN ALTER THE ABOVE CODE BY ALTERING WITH SPEECH RECOGNITON AND TEXT TO SPEECH TO CREATE A BETTER BASIC CHAT BOT ….

IF YOU WANT TO CREATE A BETTER BASIC CHAT BOT WHICH GIVES YOU THE REPLY WITH AUDIO IF YOU GIVE INPUT IN TEXT……THEN THIS IS THE CODE…….

FIRST U NEED TO UNDER STAND THE CODE OF TEXT TO SPEECH PYTHON CODE

WHICH IS …..

import pyttsx3

engine=pyttsx3.init()

x=input("type here :")

engine.say(x)

engine.setProperty('rate',110)

engine.setProperty('volume',1)

engine.runAndWait()

HERE AFTER LATER YOU NEED TO DO IS ALTER THE ABOVE CODE IN CHAT
BOT KID TO MAKE IT A BIG KID CHATTER BOT HAHHAHA;)

HERE IS THE CODE

```python
from chatterbot import ChatBot
from chatterbot.trainers import ListTrainer
import os
import pyttsx3
bot=ChatBot('innu')
engine=pyttsx3.init()
conv=open(r'C:\Users\DELL\Desktop\chat.txt').readlines()
bot.set_trainer(ListTrainer)
bot.train(conv)
while True:
    message=input('younus:').lower()
    if message.strip()!="bye":
        reply=bot.get_response(message)
        if reply.confidence>0.7:
            print('ChatBot:',reply)
            #print(reply.confidence)
            engine.say(reply)
            engine.setProperty('rate',110)
            engine.setProperty('volume',1)
            engine.runAndWait()
    if message.strip()=='bye':
        print('ChatBOt:nice to meet you,bye')
        engine.say('nice to meet you,bye')
        engine.setProperty('rate',110)
        engine.setProperty('volume',1)
        engine.runAndWait()
        break
```

————SORRY THIS ABOVE CODE IS ALSO IMAGE HAHAHAHA 😉

FROM ABOVE CODE YOU CAN CREATE A BIG KID CHATTER BOT…….

IF YOU WANT TO CREATE A BETTER BETTER BASIC CHAT BOT WHICH GIVES YOU THE REPLY WITH AUDIO IF YOU GIVE INPUT IN VOICE……THEN THIS IS THE CODE…….

LEMME MAKE YOU ALL CLEAR HERE …..THIS WORKS ONLY IN SILENT ENVIREMENT…SO CHOOSE A SILENT PLAVE TO RUN THE BELOW CODE….

AND

HERE YOU WILL GIVE INPUT IN SPEECH RECOGNITION WHICH CONVERTS INTO TEXT….

HERE IS THE CODE OF SPEECH RECOGNITION INTO TEXT …

import speech_recognition as sr

r=sr.Recognizer()

with sr.Microphone() as source:

print('say something')

audio=r.listen(source)

try:

print('you said is :\n'+r.recognize_google(audio))

except:

print('exception error')

HERE AFTER LATER YOU NEED TO DO IS ALTER THE ABOVE CODE IN CHAT BOT BIG KID TO MAKE IT A HUMAN KID CHATTER BOT HAHHAHA;)

HERE IS THE CODE….

```python
from chatterbot import ChatBot
from chatterbot.trainers import ListTrainer
import os
import pyttsx3
import speech_recognition as sr
import pyaudio
bot=ChatBot('innu')
engine=pyttsx3.init()
r=sr.Recognizer()
conv=open(r'Y:\ml pro\chat.txt').readlines()
bot.set_trainer(ListTrainer)
bot.train(conv)
while True:
    with sr.Microphone() as source:
        print('speak i am listening!!!')
        audio=r.listen(source)
        input=r.recognize_google(audio)
        print('you asked is :'+r.recognize_google(audio))
        if input.strip()!="bye":
            reply=bot.get_response(input)
            if reply.confidence>0.7:
                print('INNU:',reply)
                #print(reply.confidence)
                engine.say(reply)
                engine.setProperty('rate',107)
                engine.setProperty('volume',1)
                engine.runAndWait()
    if input.strip()=='bye':
        print('ChatBot:nice to meet you,bye')
        engine.say('nice to meet you,bye')
        engine.setProperty('rate',107)
        engine.setProperty('volume',1)
        engine.runAndWait()
        break
```

THE ABOVE CODE IS BETTER BETTER CHAT BOT CODE….

HERE U CAN DO CHANGES AND MAKE IT A GOOD CHAT BOT BY
ALTERING THIS……..

AS THIS IS ONLY A BASIC TUTORIAL TO MAKE YOU LEARN HOW AN
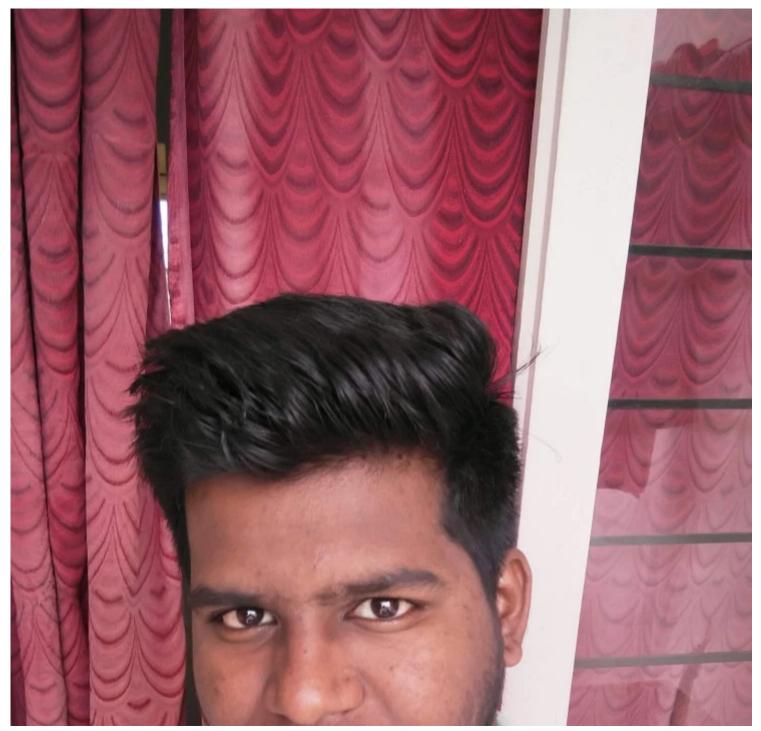ACTUAL CHAT BOT WORKS…….

YOU CAN ADD ADVANCE FUNCTIONALITY AS

TIME

WEB BROWSING

WIKIPEDIA

WEATHER INFO AND EVEN CHANGE THE DATABASE WITH CORPUS DATA
FOR ADVANCE DATA BASE OF WORDS….

******HAPPY CHATTERBOT CODING******

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tata bye bye

i apologize if any of the data given is wrong as even i'm also a student (learner) so ignore …………if any mistakes…………….;)

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