**CHAT BOT**

Mini-Project Report submitted in partial fulfilment of the requirements of the degree of Bachelor of Engineering by

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**ABSTRACT**

Chatbots, or conversational interfaces as they are also known, present a new way for individuals to interact with computer systems. Traditionally, to get a question answered by a software program involved using a search engine, or filling out a form. A chatbot allows a user to simply ask questions in the same manner that they would address a human. The most well known chatbots currently are voice chatbots: Alexa and Siri. However, chatbots are currently being adopted at a high rate on computer chat platforms.

**INTRODUCTION**

**Ch**atbot is a computer program designed to simulate conversations with human users, especially over the Internet. If you thought chatbots are new technology, you’re wrong. The first chatbot, Eliza, was built in 1966 at the MIT Artificial Intelligence Laboratory by Joseph Weizenbaum to mimic human conversations. Modeled after a Rogerian psychotherapist, Eliza worked by simple parsing and provided a parody of a conversation with a psychiatrist in the initial few minutes of the meeting.

*Messaging platforms are on the rise and it makes all the more sense to be present for the brands where the consumers spend most of their time instead of diverting them to a website or a mobile app.*

As a market that was valued at $113 million in 2015, with [predicted growth](http://www.transparencymarketresearch.com/pressrelease/chatbot-market.htm) to reach $994.5 million by 2024, we can say that chatbots are all set to grow. That’s partly because people are relying more and more on messaging apps, like Facebook Messenger, Slack and Telegram. Is it surprising then, that an industry which can offer services through a messaging platform shifts to bots? Especially when people are moving away from the web and becoming increasingly reticent about downloading new apps?

If companies could communicate to existing clients and potential customers through the various chat interfaces already being used, then it’s a win-win situation both ways! With increasing research on Artificial Intelligence (AI), Natural Language Processing (NLP) and machine learning, bots are getting increasingly efficient.

**IMPLEMENTATION**

**CODE**:

import pyttsx3

import webbrowser

import smtplib

import random

import speech\_recognition as sr

import wikipedia

import datetime

import os

import sys

import pyaudio

engine = pyttsx3.init('sapi5')

#client = wolframalpha.Client('PY3LTG-K5RLJH2P8Xs')

voices = engine.getProperty('voices')

engine.setProperty('voice', voices[len(voices)-1].id)

def speak(audio):

print('Computer: ' + audio)

engine.say(audio)

engine.runAndWait()

def greetMe():

currentH = int(datetime.datetime.now().hour)

if currentH >= 0 and currentH < 12:

speak('Good Morning!')

if currentH >= 12 and currentH < 18:

speak('Good Afternoon!')

if currentH >= 18 and currentH !=0:

speak('Good Evening!')

greetMe()

speak('Hello Sir, I am your digital assistant bunny t!')

speak('How may I help you?')

def myCommand():

r = sr.Recognizer()

with sr.Microphone() as source:

print("Listening...")

r.energy\_threshold =10000

audio = r.listen(source)

try:

query = r.recognize\_google(audio, language='en-in')

print('User: ' + query + '\n')

except sr.UnknownValueError:

speak('Sorry sir! I didn\'t get that! Try typing the command!')

query = str(input('Command: '))

return query

if \_\_name\_\_ == '\_\_main\_\_':

while True:

query = myCommand();

query = query.lower()

if 'open youtube' in query:

speak('okay')

webbrowser.open('www.youtube.com')

elif 'open google' in query:

speak('okay')

webbrowser.open('www.google.co.in')

elif 'open gmail' in query:

speak('okay')

webbrowser.open('www.gmail.com')

elif "what\'s up" in query or 'how are you' in query:

stMsgs = ['Just doing my thing!', 'I am fine!', 'Nice!', 'I am nice and full of energy']

speak(random.choice(stMsgs))

elif 'email' in query:

speak('Who is the recipient? ')

recipient = myCommand()

if 'me' in recipient:

speak('What should I say? ')

content = myCommand()

server = smtplib.SMTP('smtp.gmail.com', 587)

server.ehlo()

server.starttls()

server.login("Your\_Username", 'Your\_Password')

server.sendmail('Your\_Username', "Recipient\_Username", content)

server.close()

speak('Email sent!')

speak('Sorry Sir! I am unable to send your message at this moment!')

elif 'nothing' in query or 'abort' in query or 'stop' in query:

speak('okay')

speak('Bye Sir, have a good day.')

sys.exit()

elif 'hello' in query:

speak('Hello Sir')

elif 'bye' in query:

speak('Bye Sir, have a good day.')

sys.exit()

elif 'play music' in query:

music\_folder = Your\_music\_folder\_path

music = [music1, music2, ]

random\_music = music\_folder + random.choice(music) + '.mp3'

os.system(random\_music)

speak('Okay, here is your music! Enjoy!')

elif 'what are you' in query:

speak('I am a program sir!!. i was written by someone in language called python.If you provide me internet connection i acn search things for you in wikipedia.I can also open some applications for you sir')

elif 'do you exist' in query:

speak('yes sir but in computer program!!!')

else:

query = query

speak('Searching...')

try:

try:

res = client.query(query)

results = next(res.results).text

speak('WOLFRAM-ALPHA says - ')

speak('Got it.')

speak(results)

except:

results = wikipedia.summary(query, sentences=2)

speak('Got it.')

speak('WIKIPEDIA says - ')

speak(results)

except:

webbrowser.open('www.google.com')

speak('Next Command! Sir!')

**OUTPUT** :

Computer: Good Morning!

Computer: Hello Sir, I am your digital assistant bunny t!

Computer: How may I help you?

Listening...

Computer: Sorry sir! I didn't get that! Try typing the command!

Command: what is a dog

Computer: Searching...

Computer: Got it.

Computer: WIKIPEDIA says -

Computer: What the Dog Saw: And Other Adventures is the fourth book released by author Malcolm Gladwell, on October 20, 2009. The book is a compilation of the journalist's articles published in The New Yorker.

Computer: Next Command! Sir!

Listening...

User: what is the code

Computer: Searching...

Computer: Got it.

Computer: WIKIPEDIA says -

Computer: In communications and information processing, code is a system of rules to convert information—such as a letter, word, sound, image, or gesture—into another form or representation, sometimes shortened or secret, for communication through a communication channel or storage in a storage medium. An early example is the invention of language, which enabled a person, through speech, to communicate what he or she saw, heard, felt, or thought to others.

Computer: Next Command! Sir!

Listening...

User: hello

Computer :Hello sir!

Computer: Next Command! Sir!

Listening...s

User :Bye

Computer: Bye sir have a good day

**CONCLUSION** :

Thus we have implemented and studied chat bot using python.