**VOICE RECOGNITION**

**END TERM REPORT**

***by***

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**STUDENT DECLARATION**

We hereby declare that the End Term Report of Artificial Intelligence entitled “VOICE RECOGNITION” submitted at Lovely Professional University, Phagwara, Punjab is an authentic work and has not been submitted elsewhere.

We understand that the work presented herewith is in direct compliance with Lovely Professional University’s Policy on plagiarism, intellectual property rights, and highest standards of moral and ethical conduct. Therefore, to the best of our knowledge, the content of this report represents authentic and honest effort conducted, in its entirety, by us. We are fully responsible for the contents of our End Term Report.

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**ACKNOWLEDGEMENT**

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**INTRODUCTION**

This End Term Report of Artificial Intelligence entitled “Voice Recognition” is based on voice recognition.

Alternatively also referred to as speech recognition, voice recognition.

It is a computer software program or hardware device which has the ability to decode the human voice.

Voice recognition is commonly used to operate a device, perform commands, or write without having to use a keyboard, mouse, or press any buttons.

The code for the same is written in Python.

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**CODE SNIPPET**

import pyttsx3 #pip install pyttsx3

import speech\_recognition as sr #pip install speechRecognition

import datetime

import wikipedia #pip install wikipedia

import webbrowser

#import os

from playsound import playsound

engine=pyttsx3.init()

voices = engine.getProperty('voices')

engine.setProperty('voice',voices[0].id)

def speak(audio):

engine.say(audio)

engine.runAndWait()

def wishMe():

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

if hour>=0 and hour<12:

speak("Good Morning sir!")

elif hour>=12 and hour<18:

speak("Good afternoon sir! ")

else:

speak("Good Evening sir!")

speak("This is our Artificial intelligent project, please tell me how may i help you?")

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def takeCommand():

#It takes microphone input from the user and returns string output

r = sr.Recognizer()

with sr.Microphone() as source:

print("Listening...")

r.pause\_threshold = 1

audio = r.listen(source, phrase\_time\_limit = 5)

try:

print("Recognizing...")

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

print(f"User said: {query}\n")

except Exception as e:

print(e)

print("Say that again please...")

speak("Say that again please...")

return "None"

return query

if \_\_name\_\_ == "\_\_main\_\_":

wishMe()

while True:

# if 1:

query = takeCommand().lower()

# Logic for executing tasks based on query

if 'wikipedia' in query:

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speak('Searching Wikipedia...')

query = query.replace("wikipedia", "")

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

speak("According to Wikipedia")

print(results)

speak(results)

elif 'how are you doing' in query or 'hows going on' in query or 'how are you' in query:

speak("oh! i am doing great and always ready to help you...")

elif 'search' in query:

speak('searching it...')

query=query.replace("search","")

if query=='search':

continue

webbrowser.open(query)

speak("showing result from google")

elif 'open youtube' in query:

webbrowser.open("youtube.com")

elif 'open u m s' in query or 'login u m s' in query:

webbrowser.open("https://ums.lpu.in/lpuums/")

elif 'open google' in query:

webbrowser.open("google.com")

elif 'open stackoverflow' in query:

webbrowser.open("stackoverflow.com")

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elif 'play music' in query:

playsound("C:\\Users\\Gaurang\\Desktop\\music\\2U - David Guetta Justin Bieber (DJJOhAL.Com).mp3")

elif 'the time' in query:

strTime = datetime.datetime.now().strftime("%H:%M:%S")

speak(f"Sir, the time is {strTime}")

Python modules to be installed

pip install playsound

pip install PyAudio(version 0.2.11)

pip install speechRecognition

pip install pyttsx3

pip install wikipedia

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**SUPPORTING MATERIAL**

The code written above has no intention and is only meant for reading purpose.

The actual code is sent with this report via mail to you.

The project is uploaded at the Github link provided to us by you.

The complete video as a supporting material along with the output and the explanation is also sent along with this report and the code via mail.

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**GANTT CHART**

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