

**DAYANANDA SAGAR UNIVERSITY**

KUDLU GATE BANGALORE - 560068



**A MINI PROJECT REPORT  
ON  
“VIRTUAL ASSISTANT USING PYTHON”**

*Submitted by*

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**2022-2023**

# **DAYANANDA SAGAR UNIVERSITY**

## **DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY**



### **CERTIFICATE**

This is to certify that **Lavanya R (ENG21CT0018)**, **Swathi S (ENG21CT0043)**, **Harshitha(ENG21CT0008)** and **Sowmya(ENG21CT0017)** have satisfactorily completed their Mini Project as prescribed by the University for the 3<sup>rd</sup> Semester B.Tech. program in Computer Science & Technology during the year 2022-23 at the School of Engineering, Dayananda Sagar University, Bangalore.

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## **DECLARATION**

We hereby declare that the work presented in this minor project entitled "**VIRTUAL ASSISTANT USING PYTHON**" submitted to **DAYANANDA SAGAR UNIVERSITY, Bengaluru** is a record of group work implemented under the guidance of **PROF.M.CHITHAMBARATHANU, Assistant Professor,** Department of CST, Dayananda Sagar University.

This project is submitted in the partial fulfilment of the requirements and conductive criticism for the award of III semester minor-project. The results embodied in this project have not been submitted elsewhere for the same.

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We have received a great deal of guidance and co-operation from our friends and we wish to thank one and all who have directly or indirectly helped us in the successful completion of this project work.

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## INTRODUCTION

A virtual assistant, also called AI assistant or digital assistant, is an application program that understands natural language voice commands and completes tasks for the user. Virtual Assistants are AI (Artificial Intelligence) based programs. These programmed applications perceive human commands and language that leads to program performing tasks. To be more precise, these smart computer programs understand human language through text or particular voice commands. Consequently, they perform tasks for the user.

Ideally, Virtual Assistants execute simple human jobs, namely, adding tasks to the calendar, rendering information that is usually searched for in web browsers, and keeping track of smart devices at homes such as cameras, lights, or thermostats.

Virtual Assistants are a part of the IoT (Internet of Things). IoT is usually a network/chain of "things" that collect and transmit data over a wireless network. The best part is, this process occurs without any human intervention. the core of these assistants comprises an audio engine and speech recognition programs.

### Types of virtual assistants

Though this definition focuses on the digital form of virtual assistants, the term ***virtual assistant***, or virtual personal assistant, is also commonly used to describe contract workers who work from home doing administrative tasks typically performed by executive assistants or secretaries.

Virtual assistants can also be contrasted with another type of consumer-facing AI programming, called smart advisers. Smart adviser programs are subject-oriented, while virtual assistants are task-oriented.

## **Skills:**

The implemented voice assistant can perform the following task it can open YouTube, Gmail, Google chrome and stack overflow. Predict current time, take a photo, search Wikipedia to abstract required data, predict weather in different cities, get top headline news from Times of India and can answer computational and geographical questions too

# **REQUIREMENT ANALYSIS**

## **HARDWARE COMPONENT:**

- *We require an OS* – Windows 7/10/11, Linux, MacOS
- A Hard disk 32 GB or more of RAM –8GB or more.
- A Processor-Intel core i5 or more.

## **SOFTWARE COMPONENT:**

- *We require a Programming Language* –Python.
- *IDE (Integrated Development Environment)* –Visual Studio Code, PyCharm / Jupyter Notebook/ etc...

## **LIBRARY USED**

### **Packages required:**

To build a personal voice assistant it's necessary to install the following packages in your system using the pip command.

- 1) Speech recognition** - Speech recognition is an important feature used in house automation and in artificial intelligence devices. The main function of this library is it tries to understand whatever the humans speak and converts the speech to text.
- 2) pyttsx3** - pyttsx3 is a text to speech conversion library in python. This package supports text to speech engines on Mac os x, Windows and on Linux.
- 3) wikipedia** - Wikipedia is a multilingual online encyclopedia used by many people from academic community ranging from freshmen to students to professors who wants to gain information over a particular topic. This package in python extracts data's required from Wikipedia.
- 4) datetime** - This is an inbuilt module in python and it works on date and time.
- 5) Os** - This module is a standard library in python and it provides the function to interact with the operating system.

**6) Web browser** - This is an in-built package in python. It extracts data from the web.

**7) Smtpplib** - Python provides a smtplib module, which defines an SMTP client session object used to send emails to an internet machine. For this purpose, we have to import the smtplib module using the import statement.

**8) Pywhatkit**- pywhatkit is a Python library for sending WhatsApp messages at a certain time, it has several other features too.

**Following are some features of pywhatkit module:**

- Send WhatsApp messages.
- Play a YouTube video.
- Perform a Google Search.
- Get information on a particular topic.

**9) Pyjokes** - Pyjokes is a python library that is used to create one-line jokes for programmers.

**10) pyautogui** - Python pyautogui library is an automation library that allows mouse and keyboard control. Or we can say that it facilitates us to automate the movement of the mouse and keyboard to establish the interaction with the other application using the Python script.

## Speak Method

The method speak here will help us in taking the voice from the machine.

The **Library pytsxs3 module** is used for *text to speech conversion*. The **init function** is used to *get an engine instance for the speech synthesis*.

The pytsxs3 module supports two voices, first is female and the second is male which is provided by “sapi5” for windows.

**getProperty** a object, Gets the current value of an engine property.

Variable “**voices**” is used to get the required property from sapi5 of the library pytsxs3. You should use **engine.setProperty('voice', voices\_id)** (with voices\_id being an ID of the voice in your system; you can grab the list of available voices from engine.getProperty('voices')).

Now we call **runAndWait()**. This function will make the speech audible in the system, if you don't write this command then the speech will not be audible to you.

Here's the code:

```
engine = pytsxs3.init('sapi5')
voices = engine.getProperty('voices')
engine.setProperty('voice', voices[1].id)

def speak(audio):
    engine.say(audio)
    engine.runAndWait()
```

## Take command method

In this method , with the help of the *library SpeechRecognition*, we recognize the speech and store it in the ‘r’ variable.

*sr.Microphone()* as *source* uses the default microphone as the audio source, and the Audio recorded / identified is stored in the variable *Audio* . If the audio is failed to recognize the except block is executed.

Try block is executed when the system is Trying to catch the Speech using Google API ,once identified its is stored in the variable ‘*Query*’

Here’s the code:

```
def takeCommand():
    r = sr.Recognizer()
    with sr.Microphone() as source:
        print("Listening...")
        r.pause_threshold = 0.79
        audio = r.listen(source)

    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...")
        return "None"

    return query
```

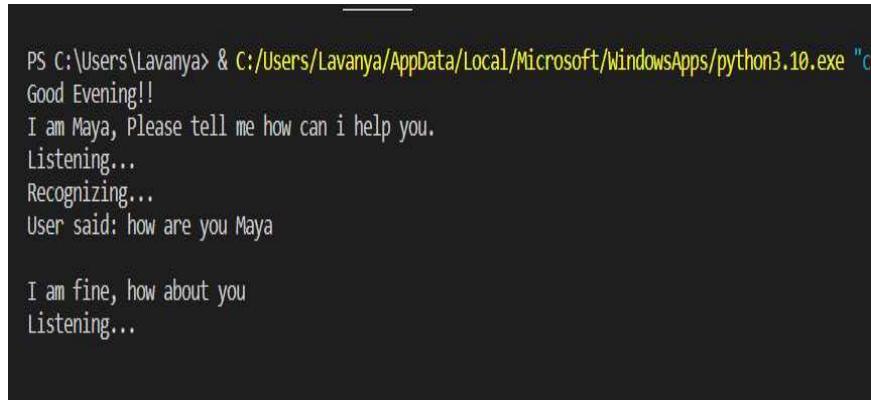
## Wishme() method

In this Method, Using the Library ***function Datetime***, we are accessing the ***datetime.now attribute*** to get the current hour.

here's the code:

```
def wishme():
    hour = int(datetime.datetime.now().hour)
    if hour>=0 and hour<=12:
        speak("Good Morning!!")
        print("Good Morning!!")
    elif hour>=12 and hour<18:
        speak("Good Afternoon!!")
        print("Good Afternoon!!")
    else:
        speak("Good Evening!!")
        print("Good Evening!!")
    speak("I am Maya, Please tell me how can I help you.")
    print("I am Maya, Please tell me how can I help you.")
```

## Output:



```
PS C:\Users\Lavanya> & C:/Users/Lavanya/AppData/Local/Microsoft/WindowsApps/python3.10.exe "c
Good Evening!!
I am Maya, Please tell me how can i help you.
Listening...
Recognizing...
User said: how are you Maya

I am fine, how about you
Listening...
```

here, we are using the ***datetime library*** with ***today()*** and ***weekday()*** attributes to store the day value in the variable ‘day’. so, ***today()*** Returns the current local date, ***weekday()*** Returns the day of the week as an integer, where Monday is 0 and Sunday is 6.

here's the code:

```
def tellDay():
    day = datetime.datetime.today().weekday() + 1
    Day_dict = {1: 'Monday', 2: 'Tuesday',
                3: 'Wednesday', 4: 'Thursday',
                5: 'Friday', 6: 'Saturday',
                7: 'Sunday'}
    if day in Day_dict.keys():
        day_of_the_week = Day_dict[day]
        print(day_of_the_week)
        speak("The day is " + day_of_the_week)
        print("The day is " + day_of_the_week)
```

## Working of whatsapp

The library function pywhatkit is very useful in accessing Whatsapp and sending messages thru commands. Using the attribute sendwhatmsg we pass the phone number, message,time in hour, time in mins as parameters to send the message. Once the message is successfully being sent the assistant gives a Follow up message as “ ok, sending the whatsapp message” both the functions Whatsapp() and whats() work on this mechanism.

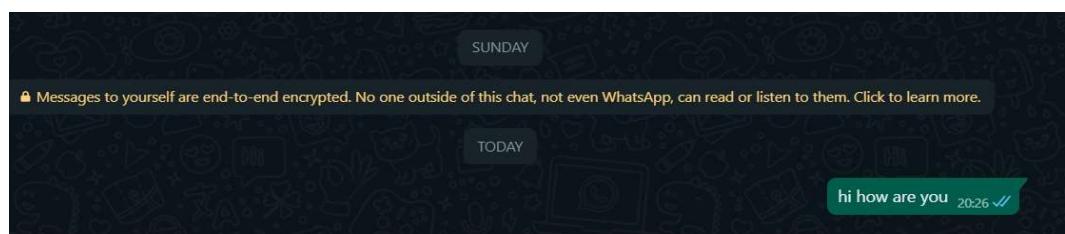
### Output:

```
PS C:\Users\Lavanya> & C:/Users/Lavanya/AppData/Local/Microsoft/WindowsApps/python3.10.exe
Good Evening!!
I am Maya, Please tell me how can i help you.
Listening...
Recognizing...
User said: send a WhatsApp message Maya

Tell me the name of the person!
Listening...
Recognizing...
User said: Lavanya

Tell me the phone number
Ph number: 9606733992
Tell me the message!
Listening...
Recognizing...
User said: hi how are you

Tell me the time
Time in hour: 19
Time in minutes
time in minute:29
In 37 Seconds WhatsApp will open and after 10 Seconds Message will be Delivered!
ok,sending the whatsapp message
```



## Main Function

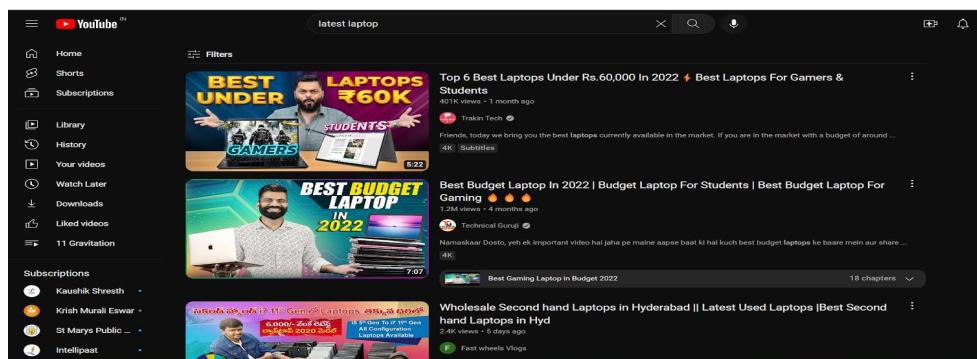
In the main function different features of the assistant is performed, by accessing or calling its respective Fuctions to perform the operation. The Following operation is performed using a elif if conditional statements.

- **Wishme** - the assistant is capable of picking up the current time and Greet the User.
- **Search Wikipedia** - Using the prebuilt Wikipedia library, we can access information.
- **Youtube search** - when the assistant recognizes ‘youtube search’ and calls the webbrowser library and access the path passed on the variable ‘web’. This function can be accessed using Pywhatkit library as well.

### Output :

```
PS C:\Users\Lavanya> & C:/Users/Lavanya/AppData/Local/Microsoft/WindowsApps/python3.10.exe
Good Evening!!
I am Maya, Please tell me how can i help you.
Listening...
Recognizing...
User said: latest laptop YouTube search

Ok, this is what i found for your search!
Done!
Listening...
```

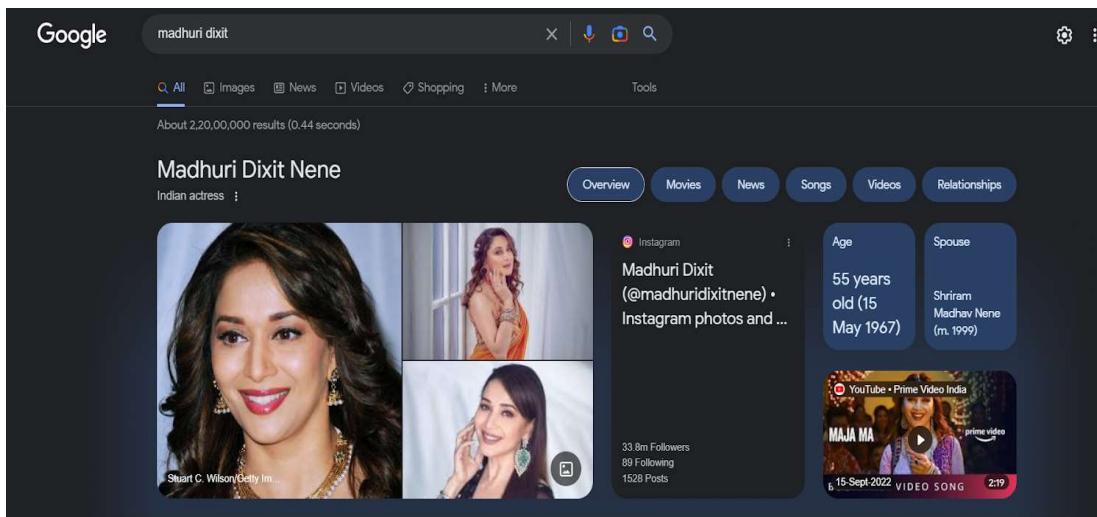


- **Google Search** - uses the library function Pywhatkit to search /surf on the internet.

## Output:

```
PS C:\Users\Lavanya> & C:/Users/Lavanya/AppData/Local/Microsoft/WindowsApps/python3.10.exe
Good Evening!!
I am Maya, Please tell me how can i help you.
Listening...
Recognizing...
User said: Madhuri Dixit Google search

Ok, this is what i found for your search!
Done!!
Listening...
```



- **website**- using the library function Webbrowser, the assistant takes the keyword and opens up the path using open() attribute.

## Output:

```
PS C:\Users\Lavanya> & C:/Users/Lavanya/AppData/Local/Microsoft/WindowsApps/python3.10.exe
Good Evening!!
I am Maya, Please tell me how can i help you.
Listening...
Recognizing...
User said: open Dayananda Sagar University website

ok, Launching...
Launches!!
Listening...
```

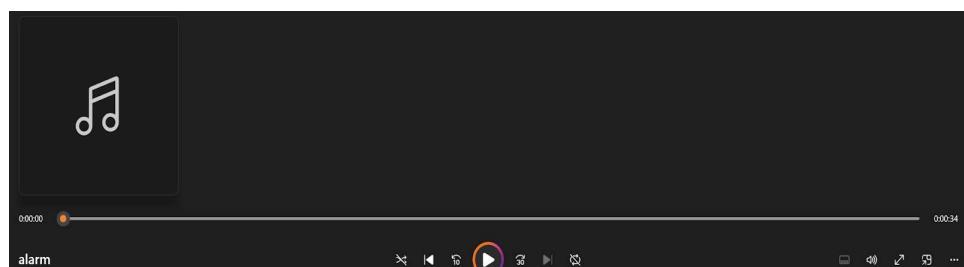


- **Open Whatsapp** - using the Os module, a particular path is stored in the code path variable, and the Os library is called and codepath is passed as a parameter.
- **Play music from library**- The Os module comes handy with a lot of different attributes, to play music from the system library we use .listdir() to access the system library.

## Output:

```
PS C:\Users\Lavanya> & C:/Users/Lavanya/AppData/Local/Microsoft/WindowsApps/python3.10.exe "
Good Evening!!
I am Maya, Please tell me how can i help you.
Listening...
Recognizing...
User said: play music Maiya

['alarm.mp3', 'desktop.ini', 'iTunes', 'Playlists']
Listening...
```



- **Date-** to display date, we take help of the library function datetime.  
we store the current date in a particular variable date , the integer is later converted into string and executed.

### Output:

```
PS C:\Users\Lavanya> & C:/Users/Lavanya/AppData/Local/Microsoft/WindowsApps/python3.10.exe "
Good Evening!!
I am Maya, Please tell me how can i help you.
Listening...
Recognizing...
User said: tell me the date Maya

Today's date is 13 12 2022
```

- **Day-** if ‘day’ is identified in the input the , the tell day() is called to display the day accessed thru dictionary.

### Output:

```
PS C:\Users\Lavanya> & C:/Users/Lavanya/AppData/Local/Microsoft/WindowsApps/python3.10.exe "
Good Evening!!
I am Maya, Please tell me how can i help you.
Listening...
Recognizing...
User said: tell me the day Maya

Tuesday
The day is Tuesday
```

- **Jokes** - this is a fun feature, which works on imported library pyjokes.

### Output:

```
Good Evening!!  
I am Maya, Please tell me how can i help you.  
Listening...  
Recognizing...  
User said: tell me a joke  
  
How many Prolog programmers does it take to change a lightbulb? false.
```

- **play from youtube-** When ‘play’ is identified , in the input command, the library pywhatkit is accessed , play music or a video on youtube, Attribute playonyt() is called.
- **send email-** Using the command and using the Smtpplib library with the access of the sendemail property module, the respected message is sent to the stored email address.

### Output:

```
Good Evening!!  
I am Maya, Please tell me how can i help you.  
Listening...  
Recognizing...  
User said: send email Maya  
  
What should I say?  
Listening...  
Recognizing...  
User said: say hello how are you I am fine  
  
Email has been sent!  
Listening...  
Recognizing...
```



say hello how are you I am fine

- **Mimicking-** Mimicking is just the command for the assistant to repeat all the commands the user passed.

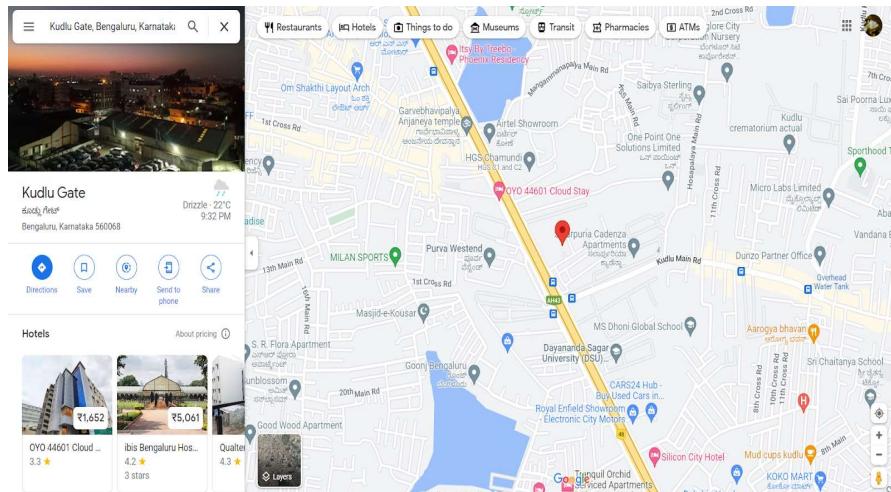
### Output:

```
Good Evening!!  
I am Maya, Please tell me how can i help you.  
Listening...  
Recognizing...  
User said: repeat my words  
  
Yes Definitely!!  
Listening...  
Recognizing...  
User said: it's raining today  
  
You said: it's raining today
```

- **Map location-** Our assistant provided information on a particular place location.

### Output:

```
Good Evening!!  
I am Maya, Please tell me how can i help you.  
Listening...  
Recognizing...  
User said: open my location Maya  
  
ok,wait a second
```



- **Set alarm-** Using the date and time library , the assistant can set a particular time as an alarm , for the ring tone the playsound property will set a particular song to ring.

## Output:

```
Good Evening!!
I am Maya, Please tell me how can i help you.
Listening...
Recognizing...
User said: set alarm Maiya

: Enter the Time :21:23:00
Time to wake up sir!!
Alarm Closed!
```

- **News-** using the webbrowser library function, we have made it able to access news easily.

## Output:

```
Good Evening!!
I am Maya, Please tell me how can i help you.
Listening...
Recognizing...
User said: open news Maya

Here are some headlines from the Times of India,Happy reading
```

The screenshot shows the homepage of The Times of India. At the top, there's a navigation bar with links like 'India', 'Himachal Pradesh Elections', 'Gujarat Elections', 'Opinions and Features', 'The Times of a Better India', 'Times Evoke', 'Maharashtra', 'Delhi', 'Karnataka', 'Tamil Nadu', 'Telangana', and a search icon. Below the navigation is a banner with the text 'TOP SEARCHES' followed by several news topics. The main area is titled 'INDIA NEWS' and features a large image with the caption 'Cold conditions intensify across Kashmir Valley'. To the right of the image are four news snippets:

- Futuristic education system being created in country through NEP: PM
- Rahul Gandhi halts Yatra to give way to ambulance near Apollo hospital
- Drone shot down by BSF along India-Pakistan border in Punjab
- No plan to have another demonetization if there is cash surge in economy: Govt
- Opposition seeks Shinde ouster for allotting Rs 83cr land for Rs 2cr
- Govt raises allocation to NHAI by 44% for road maintenance

On the far right, there's a promotional box for 'TOI+' with the heading 'Christmas Sale: Get 40% off on 1 year of TOI+'. It includes icons for a calendar, a person, and a globe, along with text about the offer and a 'SUBSCRIBE NOW' button.

- **Goodbye-** This greets the user Goodbye and terminates the program.

## Output:

```
Say that again please...
Listening...
Recognizing...
User said: goodbye Maiya

Bye. I hope you have a Great Day!!
PS C:\Users\lavanya\OneDrive\Desktop\Python programs>
```

## Complete Code:

```
import pyttsx3
import datetime
from playsound import playsound
import speech_recognition as sr
import wikipedia
import webbrowser
import os
import smtplib
import pywhatkit
import pyjokes

engine = pyttsx3.init('sapi5')
voices = engine.getProperty('voices')
engine.setProperty('voice', voices[1].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!!")
        print("Good Morning!!")

    elif hour>=12 and hour<18:
        speak("Good Afternoon!!")
        print("Good Afternoon!!")
```

```
else:
    speak("Good Evening!!")
    print("Good Evening!!")

    speak("I am Maya, Please tell me how can i help you.")
    print("I am Maya, Please tell me how can i help you.")

def takeCommand():
    r = sr.Recognizer()
    with sr.Microphone() as source:
        print("Listening...")
        r.pause_threshold = 0.79
        r.energy_threshold = 500
        audio = r.listen(source)

    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...")
        return "None"

    return query

def sendEmail(to, content):
    server = smtplib.SMTP('smtp.gmail.com', 587)
    server.ehlo()
    server.starttls()
    server.login('eng21ct0018@dsu.edu.in', 'Lavanya@123')
```

```
server.sendmail('eng21ct0018@dsu.edu.in', to, content)
server.close()

def tellDay():
    day = datetime.datetime.today().weekday() + 1
    Day_dict = {1: 'Monday', 2: 'Tuesday',
                3: 'Wednesday', 4: 'Thursday',
                5: 'Friday', 6: 'Saturday',
                7: 'Sunday'}

    if day in Day_dict.keys():
        day_of_the_week = Day_dict[day]
        print(day_of_the_week)
        speak("The day is " + day_of_the_week)
        print("The day is " + day_of_the_week)

def Whatsapp():
    speak("Tell me the name of the person!")
    print("Tell me the name of the person!")
    name = takeCommand()

    if 'deepa' in name:
        speak("Tell me the message!")
        print("Tell me the message!")
        msg= takeCommand()
        speak("Tell me the time ")
        print("Tell me the time")
        hour = int(takeCommand())
        speak("Time in minutes")
        print("Time in minutes")
        min = int(takeCommand())
```

```
    pywhatkit.sendwhatmsg("+919916548600", msg, hour,
min,20)

    speak("ok,sending the whatsapp message")
    print("ok,sending the whatsapp message")

else:

    speak("Tell me the phone number")
    print("Tell me the phone number")
    phone = input("Ph number: ")
    ph = '+91'+ phone
    speak("Tell me the message!")
    print("Tell me the message!")
    msg= takeCommand()
    speak("Tell me the time")
    print("Tell me the time")
    hour = int(input("Time in hour: "))
    speak("Time in minutes")
    print("Time in minutes")
    min = int(input("time in minute:"))
    pywhatkit.sendwhatmsg(ph,msg,hour,min,10)
    speak("ok,sending the whatsapp message")
    print("ok,sending the whatsapp message")

def Whats():

    speak("Tell me the group name")
    print("Tell me the group name")
    p= input("Group Name: ")
    speak("Tell me the message!")
    print("Tell me the message!")
    msg= takeCommand()
```

```
speak("Tell me the time")
print("Tell me the time")
hour = int(input("Time in hour: "))
speak("Time in minutes")
print("Time in minutes")
min = int(input("time in minute:"))
pywhatkit.sendwhatmsg_to_group(p,msg,hour,min,2)
speak("ok,sending the whatsapp message")
print("ok,sending the whatsapp message")

if __name__=="main__":
    wishme()
    while True:
        query = takeCommand().lower()
        if 'wikipedia' in query:
            speak('Searching Wikipedia...')
            print('Searching Wikipedia...')
            query = query.replace("wikipedia", " ")
            results = wikipedia.summary(query, sentences=2)
            speak("According to Wikipedia")
            print("According to Wikipedia")
            print(results)
            speak(results)

        elif 'youtube search' in query:
            speak("Ok, this is what i found for your search!")
            print("Ok, this is what i found for your search!")
            query = query.replace("Maya", " ")
            query = query.replace("youtube search", " ")
```

```
web='https://www.youtube.com/results?search_query=' + query
    webbrowser.open(web)
    speak("Done!!")
    print("Done!!")

elif 'google search' in query:
    speak("Ok, this is what i found for your search!")
    print("Ok, this is what i found for your search!")
    query = query.replace("Maya", " ")
    query = query.replace("google search", " ")
    pywhatkit.search(query)
    speak("Done!!")
    print("Done!!")

elif 'website' in query:
    speak("ok, Launching...")
    print("ok, Launching...")
    query = query.replace("Maya", " ")
    query = query.replace("Website", " ")
    query = query.replace(" ", "")
    web1 = query.replace("open", " ")
    web2 = 'https://www.' + web1 + '.com'
    webbrowser.open(web2)
    speak("Launches!!")
    print("Launches!!")

elif 'open google' in query:
    webbrowser.open('www.google.com')
```

```
elif 'open code' in query:
    codePath =
"C:\\\\Users\\\\Lavanya\\\\AppData\\\\Roaming\\\\Microsoft\\\\Windows\\\\Sta
rt Menu\\\\Programs\\\\Visual Studio Code\\\\Visual Studio Code.lnk"
    os.startfile(codePath)

elif 'open whatsapp' in query:
    codePath =
"C:\\\\Users\\\\Lavanya\\\\AppData\\\\Roaming\\\\Microsoft\\\\Windows\\\\Sta
rt Menu\\\\Programs\\\\WhatsApp\\\\WhatsApp.lnk"
    os.startfile(codePath)

elif 'open canva' in query:
    codePath =
"C:\\\\Users\\\\Lavanya\\\\AppData\\\\Roaming\\\\Microsoft\\\\Windows\\\\Sta
rt Menu\\\\Programs\\\\Canva.lnk"
    os.startfile(codePath)

elif 'play music' in query:
    music_dir = 'C:\\\\Users\\\\Lavanya\\\\Music'
    songs = os.listdir(music_dir)
    print(songs)
    os.startfile(os.path.join(music_dir, songs[0]))

elif 'date' in query:
    date = datetime.datetime.now().strftime('%d %m
%Y')
    speak("Today's date is " + date)
    print("Today's date is " + date)

elif 'whatsapp message' in query:
    Whatsapp()
```

```
elif 'group message' in query:  
    Whats()  
  
elif 'how are you' in query:  
    speak("I am fine, how about you")  
    print("I am fine, how about you")  
  
elif 'what is your name' in query:  
    speak("I am Maya, What can I do for you?")  
    print("I am Maya, What can I do for you?")  
  
elif 'who is' in query:  
    human = query.replace('Who is', ' ')  
    info = wikipedia.summary(human,1)  
    print(info)  
    speak(info)  
  
elif 'joke' in query:  
    Jokee=pyjokes.get_joke()  
    print(Jokee)  
    speak(Jokee)  
  
elif "play" in query:  
    song = query.replace('play'," ")  
    speak("playing" + song)  
    print("playing" + song)  
    pywhatkit.playonyt(song)  
  
elif 'send email' in query:
```

```
try:
    speak("What should I say?")
    print("What should I say?")
    content = takeCommand()
    to = "dishlavu@gmail.com"
    sendEmail(to, content)
    speak("Email has been sent!")
    print("Email has been sent!")

except Exception as e:
    print(e)
    speak("Sorry , I am not able to send this
email")
    print("Sorry, I am not able to send this
email")

elif 'day' in query:
    tellDay()

elif 'goodbye' in query:
    print('Bye. I hope you have a Great Day!!!')
    speak("Bye. I hope you have a Great Day!!!")
    exit()

elif 'repeat my words' in query:
    speak("Yes Definitely!!!")
    print("Yes Definitely!!!")
    jj = takeCommand()
    speak(f'You said: {jj}')
    print(f'You said: {jj}')

elif 'my location' in query:
    speak('ok,wait a second')
    print('ok,wait a second')
```

```
webbrowser.open("https://www.google.com/maps/@12.95396,77.4908521,11z")  
  
    elif 'alarm' in query:  
  
        speak("Enter the Time :")  
        time = input(": Enter the Time :")  
        while True:  
            t = datetime.datetime.now()  
            now = t.strftime("%H:%M:%S")  
            if now == time:  
                speak("Time to wake up sir!!")  
                print("Time to wake up sir!!")  
  
playsound("C:\\\\Users\\\\Lavanya\\\\Downloads\\\\alarm.mp3")  
  
    speak("Alarm Closed!")  
    print("Alarm Closed!")  
  
    elif now>time:  
        break  
  
    elif 'news' in query:  
  
        news = webbrowser.open_new_tab  
        ("https://timesofindia.indiatimes.com/india")  
        speak('Here are some headlines from the Times of  
India,Happy reading')  
        print('Here are some headlines from the Times of  
India,Happy reading')  
        time.sleep(6)
```

## SCREENSHOTS

Good Evening!!  
I am Maya, Please tell me how can i help you.  
Listening...  
Recognizing...  
User said: YouTube search laptop

Ok, this is what i found for your search!  
Done!!  
Listening...  
Recognizing...  
User said: Akshay Kumar Wikipedia

Searching Wikipedia...  
According to Wikipedia  
Rajiv Hari Om Bhatia (born 9 September 1967), known professionally as Akshay Kumar (pronounced [ək'seɪj kʊ'ma:r]), is an Indian-born naturalised Canadian actor and film producer who works a. In over 30 years of acting, Kumar has appeared in over 100 films and has won several awards, including two National Film Awards and two Filmfare Awards.  
Listening...  
Recognizing...  
User said: Google Search on TV

Ok, this is what i found for your search!  
Done!!  
Listening...  
Recognizing...  
User said: play music

['alarm.mp3', 'desktop.ini', 'iTunes', 'Playlists']  
Listening...  
Recognizing...  
Say that again please...  
Listening...  
Recognizing...

```
['alarm.mp3', 'desktop.ini', 'iTunes', 'Playlists']
Listening...
Recognizing...
Say that again please...
Listening...
Recognizing...
User said: tell me the date Maya

Today's date is 26 12 2022
Listening...
Recognizing...
User said: tell me the day Maya

Monday
The day is Monday
Listening...
Recognizing...
User said: send a WhatsApp message Maya

Tell me the name of the person!
Listening...
Recognizing...
User said: Harshita

Tell me the phone number
Ph number: 7019337225
Tell me the message!
Listening...
Recognizing...
User said: I am done with my assignment

Tell me the time
Time in hour: 19
Time in minutes
time in minute:45
In 33 Seconds WhatsApp will open and after 10 Seconds Message will be Delivered!
ok,sending the whatsapp message
Listening...

PS C:\Users\Lavanya\OneDrive\Desktop\Python programs> & C:/Users/Lavanya/AppData/Local/Microsoft/WindowsApps/python3.10.exe "c:/Users/Lavanya/OneDrive/Desktop/Python programs/voiceassistant.py"
Good Evening!!
I am Maya, Please tell me how can i help you.
Listening...
Recognizing...
User said: how are you Maya

I am fine, how about you
Listening...
Recognizing...
User said: what is your name

I am Maya, What can I do for you?
Listening...
Recognizing...
User said: who is Shilpa shetty

Shilpa Shetty Kundra (born Ashwini Shetty; Née Shetty; 8 June 1975) is an Indian actress who works mainly in Hindi-language films.
Listening...
Recognizing...
User said: tell me a joke

How many Prolog programmers does it take to change a lightbulb? false.
Listening...
Recognizing...
User said: play me English song perfect

playing me english song perfect
Listening...
Recognizing...
User said: send an email

Listening...
```

21:27 d

38%



(no subject) Inbox



eng21ct0018@dsu.e... 21:25

to ▾



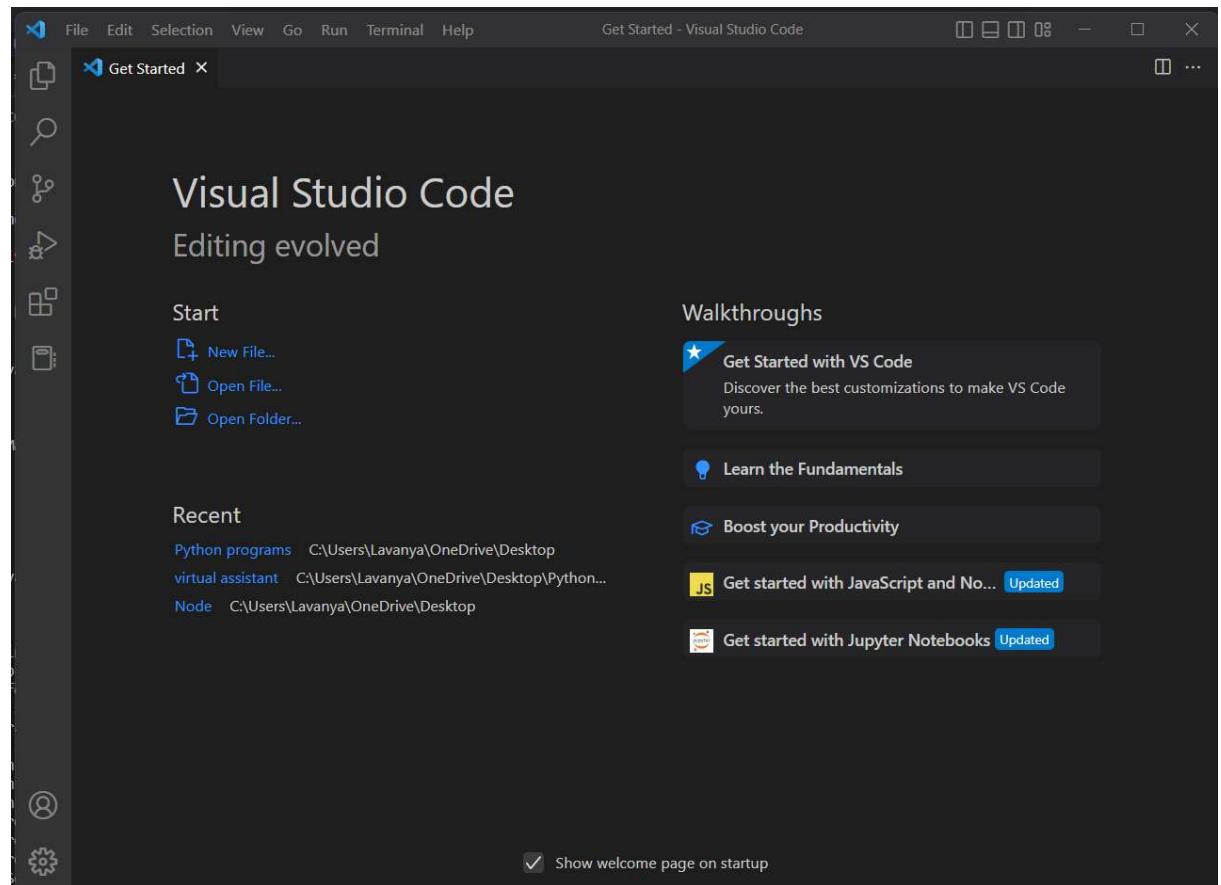
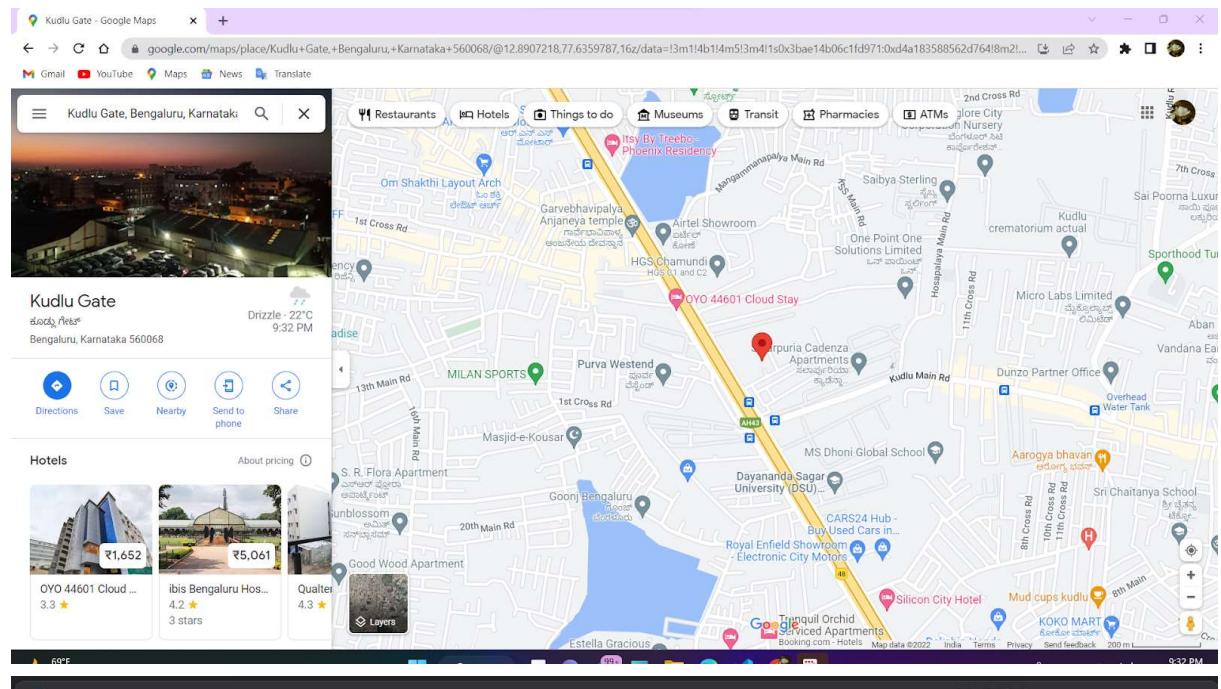
say hello how are you I am fine

Good Evening!!  
I am Maya, Please tell me how can i help you.  
Listening...  
Recognizing...  
User said: repeat my words Maya

Yes Definitely!!  
Listening...  
Recognizing...  
User said: I love programming

You said: I love programming  
Listening...  
Recognizing...  
User said: open my location

ok,wait a second  
Listening...



The screenshot shows the Canva homepage. At the top, there's a navigation bar with icons for home, projects, and templates, along with a search bar and a "Create a design" button. The main header asks "What will you design today?". Below it is a search bar and a row of category icons: For you, Docs, Whiteboards, Presentations, Social media, Videos, Print products, Websites, and More. To the left, a sidebar shows a profile picture for "Lavanya Ramkumar..." and links for "Get Canva Pro", "Home", "Templates", "Projects", "Tools" (Brand, Content Planner, Discover apps), and "Smartmockups". A section titled "You might want to try..." shows thumbnails for Doc, Whiteboard, Presentation (16:9), A4 Document, Infographic, and Presentation (4:3) templates.

The screenshot shows the WhatsApp desktop application. On the left, a sidebar lists recent chats with various contacts. In the main window, a chat with "+91 96067 33992 (You)" is open. The contact info shows they are messaging themselves. The message list includes several attachments: a PDF file (32 pages, 2 MB), a Word document (DS Lab Record.pdf, 7 pages, 813 kB), a Word document (DATA STRUCTURES\_Record.docx, 1 page, 28 kB), a link (https://1drv.ms/p/s!ArQKomkTm4kZgY4yYa-WIWGJ4D9iaA?e=NknDLu), and a PPTX file (RPC.PPT.pptx, 11 pages, 417 kB). A forwarded message from "DAYANANDA SAGAR UNIVERSITY" is also visible. The status bar at the bottom shows the date and time as 9:02 PM on 12/26/2022.

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Google offered in: हिन्दी वारा लेख मराठी कन्नಡ ಮುಖ್ಯ ಕ್ರಾಂತಿ ಕ್ರಾಂತಿ ಮಾರ್ಚ್ ಮಾರ್ಚ್ ಮಾರ್ಚ್

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## Madhuri Dixit Nene

Indian actress

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Madhuri Dixit (@madhuridixitnene) • Instagram photos and ...  
33.8m Followers 89 Following 1528 Posts

Age 55 years old (15 May 1967) Spouse Shriram Madhav Nene (m. 1999)



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6 15 Sept 2022 VIDEO SONG 2:19

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9:30 PM 12/25/2022

CORONAVIRUS OUTBREAK

## **CONCLUSION**

In this report “Virtual Assistant Using Python” we discussed the design and implementation of Digital Assistance. The project is built using open source software modules with Virtual Studio and PyPI community backing which can accommodate any updates shortly. The modular nature of this project makes it more flexible and easy to add additional features without disturbing current system functionalities.

It not only works on human commands but also give responses to the user based on the query being asked or the words spoken by the user such as opening tasks and operations. It is greeting the user the way the user feels more comfortable and feels free to interact with the voice assistant. The application should also eliminate any kind of unnecessary manual work required in the user life of performing every task. The entire system works on the verbal input rather than the next one.

## **FUTURE ENHANCEMENT**

- Graphical interface can be added to make it more interesting.
- We can make it sensitive towards emotions.
- We can enhance the features and make the voice recognition adaptive to the speech more accurates.
- We can give commands in various other languages as well.

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