Mini - Project Report (KEE-554)
VOICE ASSISTED ARTIFICIAL INTELLIGENCE MODEL USING PYTHON

A report submitted in partial fulfillment of the requirements for the Award of Degree of

BACHELOR OF TECHNOLOGY

in

ELECTRICAL ENGINEERING

Submitted By

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ON 28/11/2023

submitted to the

DEPARTMENT OF ELECTRICAL ENGINEERING

INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Sitapur Road, Lucknow, Uttar Pradesh, India)

DECLARATION

This is to certify that this "Mini-project report" comprises work done by me and my groupmate and submitted during 2023 –

2024 academic year, in partial fulfillment of the requirements for the award of the degree of BACHELOR OF

TECHNOLOGY in ELECTRICAL ENGINEERING, at INSTITUTE OF ENGINEERING &

TECHNOLOGY (Sitapur Road, Lucknow, Uttar Pradesh, India)

Date: 28/11/2023

Place: Lucknow

Name and Signature of student

Agam Gupta

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DEPARTMENT OF ELECTRICAL ENGINEERING
INSTITUTE OF ENGINEERING & TECHNOLOGY
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CERTIFICATE

</div>

This is to certify that the "Mini-project report" submitted by Agam Gupta (Roll No.- 2100520200007) is work

done by him and submitted during 2023 – 2024 academic year, in partial fulfillment of the requirements

for the award of the degree of BACHELOR OF TECHNOLOGY in ELECTRICAL ENGINEERING, at INSTITUTE OF

ENGINEERING & TECHNOLOGY (Sitapur Road, Lucknow, Uttar Pradesh, India)

Date: 28/11/2023

Place: Lucknow

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Dr. Kuldeep Sahay, Dr. Anurag Verma

Agam Gupta 2100520200007

EXECUTIVE SUMMARY

This report comprises of a mini project based on Python for voice assisted basic level AI model. Python is an interprete based programming language designed by Guido van Rossum. Python is widely used in various domains of computer science such as Machine Learning, Deep Learning, Artificial Intelligence and Computer Vision. It is free and can be used on various operating systems such as Windows, Mac OS and Linux. It was developed by Intel and is licensed under Apache License 2.

FEATURES----

1- Greets you according to your daytime

2- Takes commands like opening browser, you tube, playing music.

3- Sends Email.

INDEX
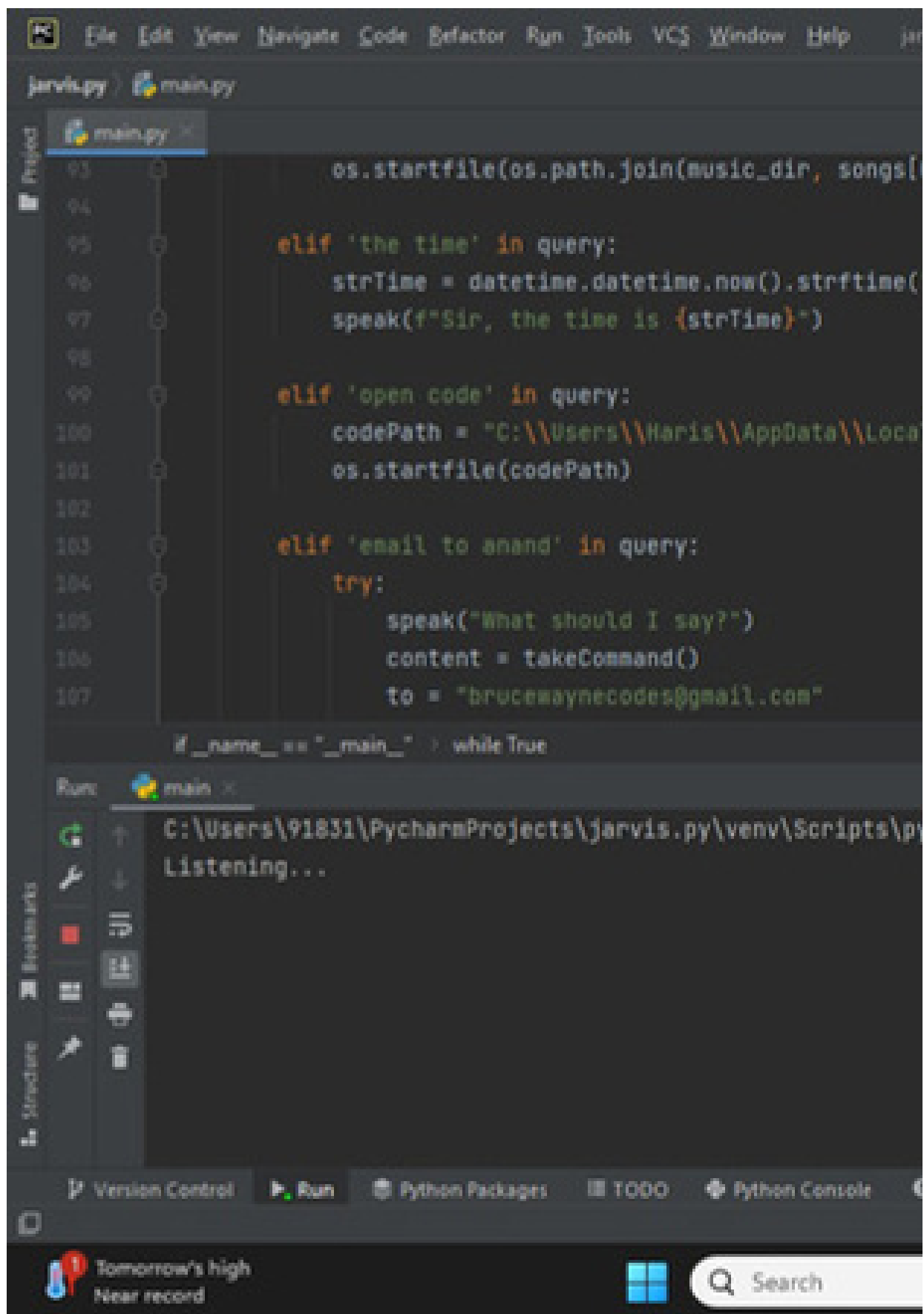
Code:-


```python
        elif 'open stackoverflow' in query:
            webbrowser.open("stackoverflow.com")


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

        elif 'the time' in query:
            strTime = datetime.datetime.now().strftime("%H:%M:%S")
            speak(f"Sir, the time is {strTime}")

        elif 'open code' in query:
            codePath = "C:\\Users\\Haris\\AppData\\Local\\Programs\\Microsoft VS Code\\Code.exe"
            os.startfile(codePath)

        elif 'email to anand' in query:
            try:
                speak("What should I say?")
                content = takeCommand()
                to = "brucewaynecodes@gmail.com"
                sendEmail(to, content)
                speak("Email has been sent!")
```



```python
        server.starttls()
        server.login('anandtiwari0963@gmail.com', 'bepzpqfwjvfsjeff')
        server.sendmail('anandtiwari0963@gmail.com', to, content)
        server.close()

        # email = input("SENDER MAIL : ")
        # receiver_email = input("RECIEVER EMAIL: ")




if __name__ == "__main__":
    wishMe()
    while True:
        # if 1:
        query = takeCommand().lower()

        # Logic for executing tasks based on query
        if 'wikipedia' in query:
            speak('Searching Wikipedia...')
            query = query.replace("wikipedia", "")
            results = wikipedia.summary(query, sentences=2)
            speak("According to Wikipedia")
            print(results)
            speak(results)

        elif 'open youtube' in query:
```

```python
        speak("Good Evening!")

    speak("I am Jarvis Sir. Please tell me how may I help you")

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)

    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)
```

if __name__ == "__main__" > while True > elif 'play music' in query

---

```python
import pyttsx3 #pip install pyttsx3
import speech_recognition as sr #pip install speechRecognition
import datetime
import wikipedia #pip install wikipedia
import webbrowser
import os
import smtplib

engine = pyttsx3.init('sapi5')
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!")

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

if __name__ == "__main__" > while True > elif 'play music' in query

```python
        os.startfile(os.path.join(music_dir, songs[
    
        elif 'the time' in query:
            strTime = datetime.datetime.now().strftime(
            speak(f"Sir, the time is {strTime}")
    
        elif 'open code' in query:
            codePath = "C:\\Users\\Haris\\AppData\\Loca
            os.startfile(codePath)
    
        elif 'email to anand' in query:
            try:
                speak("What should I say?")
                content = takeCommand()
                to = "brucewaynecodes@gmail.com"
```

if __name__ == "__main__" > while True

Run   main

C:\Users\91831\PycharmProjects\jarvis.py\venv\Scripts\p
Listening...

Version Control   Run   Python Packages   TODO   Python Console

Tomorrow's high
Near record

Search

References:

1. https://www.youtube.com/watch? v=Lp9Ftuq2sVI&t=1566s

2. https://www.python.org/