

Prerequisites:

1. Have python installed on your computer
2. Have a GitHub account

Setup:

1. Download the Git Repository:

<https://github.com/AmoghBindal/MeetingBuddy>

2. Download the following libraries of python:

- replicate
- sentence-transformers
- opencv-python
- pyautogui
- pyaudio
- nltk
- SpeechRecognition
- vosk

process:

In the command prompt run the following command:

pip install {library_name}

3. Download the following transcription model:

<https://alphacephei.com/vosk/models>

Extract the zip file into the folder where you have cloned the repository and

rename it as “model”.

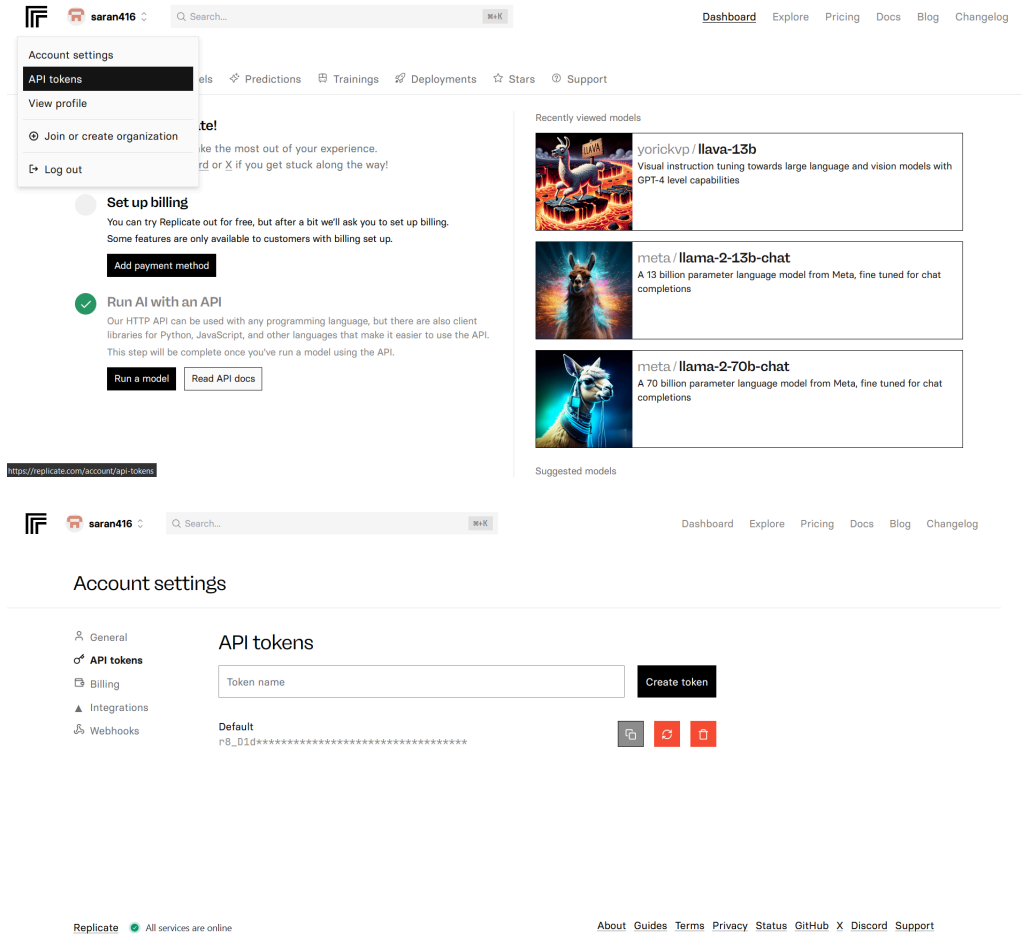
Note:

- The model we have used can also be replaced with whatever model you like based on the accent, language and precision required (more precision might require greater space and computing power).
- Model used by us in the demo is: **vosk-model-en-in-0.5**.

4. Using llava API from replicate ai:

<https://replicate.com/yorickvp/llava-13b>

- Sign in with your github profile.
- On the top-left click on your profile name and then click on API tokens.
- Copy your Default API token.
- Now in the file ‘**llava.py**’ replace “**{YOUR_REPLICATE_API_TOKEN}**” with the copied text.



The screenshot shows the Replicate web interface. At the top, the user 'saran416' is logged in. A dropdown menu is open, showing options like 'Account settings', 'API tokens', 'View profile', 'Join or create organization', and 'Log out'. The 'API tokens' option is selected. Below the dropdown, there are sections for 'Set up billing' and 'Run AI with an API'. The 'Run AI with an API' section has a 'Run a model' button and a 'Read API docs' link. On the right, there are 'Recently viewed models' including 'yorickvp/llava-13b', 'meta/llama-2-13b-chat', and 'meta/llama-2-70b-chat'. Below this, there are 'Suggested models'. At the bottom, there is a navigation bar with links like 'About', 'Guides', 'Terms', 'Privacy', 'Status', 'GitHub', 'X', 'Discord', and 'Support'.

Account settings

API tokens

Token name

Create token

Default

r8_d1d*****

Replicate All services are online

About Guides Terms Privacy Status GitHub X Discord Support

```

import replicate
import os
import base64
import ctypes # An included library with Python install.

os.environ["REPLICATE_API_TOKEN"] = "{YOUR_REPLICATE_API_TOKEN}"

print(os.environ.get("REPLICATE_API_TOKEN"))

#This Function Takes text and image and prints response
def genresponse(text, imgurl):
    binary_fc = open(imgurl, 'rb').read() # fc aka file_content
    base64_utf8_str = base64.b64encode(binary_fc).decode('utf-8')

    ext = imgurl.split('.')[-1]
    dataurl = f'data:image/{ext};base64,{base64_utf8_str}'

    output = replicate.run(
        "yorickvp/llava-13b:b5f6212d032508382d61ff00469ddda3e32fd8a0e75dc39d8a4191bb742157fb",
        input={
            "image": dataurl,

```

5. Change the name:

In the “Main.py” file replace {YOUR_NAME} with your name.

```

import speech_recognition as sr
import NLP
import pyautogui
import cv2
import numpy as np
from llava import genresponse
import winsound

frequency = 2500 # Set Frequency To 2500 Hertz
duration = 2000 # Set Duration To 1000 ms == 1 second
personname = "{YOUR_NAME}"

#initialize recognizer
r = sr.Recognizer()

def record_text():
    #loop in case of erros
    while(1):
        try:
            #use the microphone as source for input
            with sr.Microphone() as source1:
                r.adjust_for_ambient_noise(source1, duration=0.2)
                print("Listening...")
                audio1 = r.listen(source1,0.8)
                print("Converting to Text....")
                MyText = r.recognize_vosk(audio1)

                return MyText

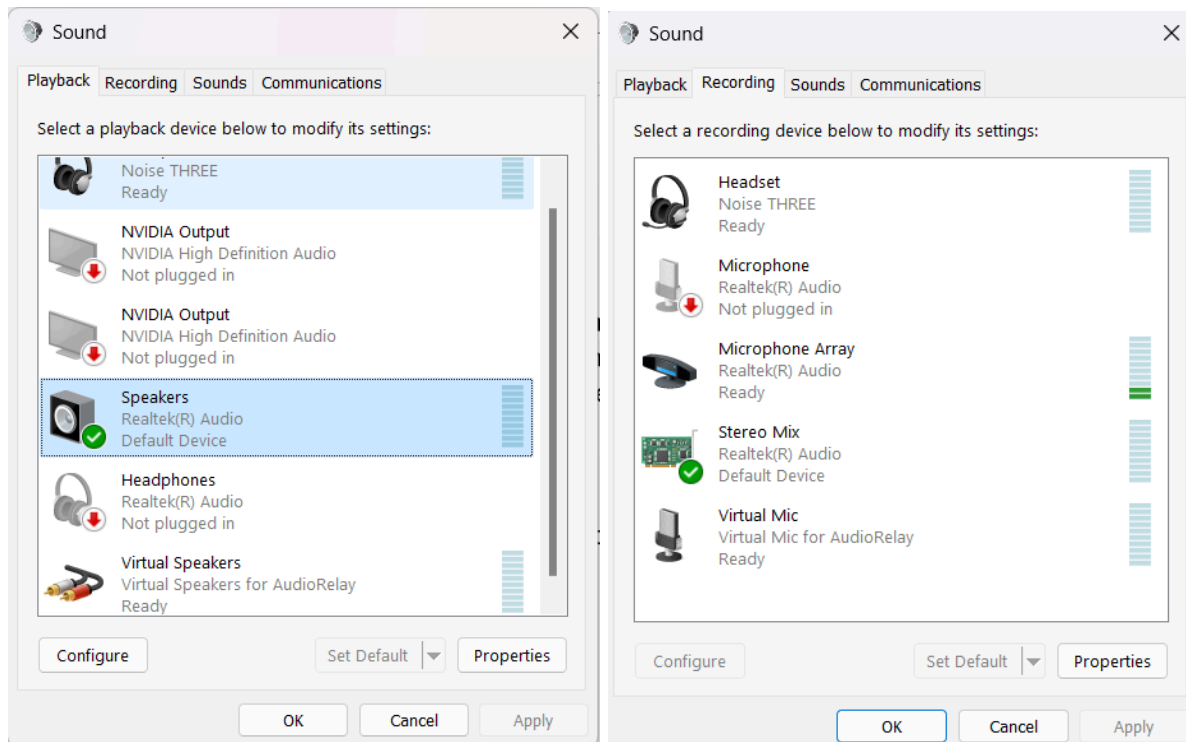
        except sr.RequestError as e:
            print(f"Could no request results {e}")

        except sr.UnknownValueError:
            print("unknown value ocured")

```

6.Changing default audio-input:

- Open windows run program [⌘ Win + R] and run **mmsys.cpl**
- Go to the **Playback** section in the top left corner and make sure the default device is **Device Speakers**(while running the meeting make sure audio is playing on the device speakers).



- Go to the **Recordings** section.
- Change Default device to **Stereo Mix**.
- When joining the video meeting make sure your Audio Input device is a Microphone and not Default settings since we changed the Default to Stereo Mix.
- When you are done using the application make sure to change the sound settings to previously set Default Devices.