

Project Name : Desktop Voice Assistant

project details :

- It imports necessary modules such as pyttsx3 for text-to-speech conversion then after import the date and time , speech recognition , Wikipedia , web browser , Os
- Import Os modules for interacting with the operating system of desktop
- The speak function takes a string as input and converts it to speech using the text-to-speech engine.
- then **wishing time** function greets the user based on the current time and calls the speak function to speak the greeting
- Then **take command** function uses the speech recognition module to listen to the user's voice input through the microphone, recognize the speech using Google's speech recognition API, and return the recognized query as a string
- It checks the user's **query**("variable name") for specific keywords speech recognition of such as **Wikipedia**, **open YouTube** , **open google**, **play music**, **open chrome**, **open camara capture the photos** access and Give Today **time and date**, and **Get Today weather** then finally going to sleep mode of desktop
- The loop continues indefinitely, allowing the assistant to respond to multiple commands from the user input voice.

Functionalities:

- **Wikipedia Search**:- You can ask the assistant to search Wikipedia for any information.
- **Web Browsing**:- Open websites like YouTube, Google, and Stack Overflow for any information..
- **Camera**:- Take a photo using your computer's camera.
- **Music**:- Play music from a specified directory.
- **Time and Date**:- Get the current time and date.
- **Email**:- Send an email (make sure to set up email configuration).
- **Location**:- Find the location of a place using Google Maps.
- **Search**:Perform a web search.