

Voice Assistant

Voice Assistant is a Python program that can perform various tasks based on voice input. It uses the SpeechRecognition library to capture voice input and the gTTS (Google Text-to-Speech) library to synthesize and play responses.

Features

Voice Assistant includes a number of features to help you get things done quickly and easily:

- Wikipedia search: If you mention the word "wikipedia" in your voice input, Voice Assistant will use the Wikipedia library to search for information on the topic and provide a summary of the results.
- Time: If you mention the word "time" in your voice input, Voice Assistant will provide the current time.
- Web search: If you mention the word "search" in your voice input, Voice Assistant will perform a search for the specified topic using your default web browser.
- Math and science questions: If you ask a math or science question that starts with the words "calculate" or "what is," Voice Assistant will use the Wolfram Alpha API to answer your question.
- Google: If you mention the phrase "open google" in your voice input, Voice Assistant will open the Google homepage in your default web browser.
- YouTube: If you mention the word "youtube" in your voice input, Voice Assistant will search YouTube for the specified topic using the Chrome web browser.
- Microsoft Word: If you mention the phrase "open word" in your voice input, Voice Assistant will open Microsoft Word.

Requirements

In order to use Voice Assistant, you will need:

- Python 3.5 or later
- The SpeechRecognition library (`pip install speechrecognition`)
- The gTTS library (`pip install gTTS`)
- The Wikipedia library (`pip install wikipedia`)
- The Wolfram Alpha API key (obtainable at <https://developer.wolframalpha.com/>)
- The Chrome web browser and ChromeDriver (download and installation instructions can be found at <https://chromedriver.chromium.org/downloads>)
- Microsoft Word (part of the Microsoft Office suite)

Usage

To use Voice Assistant, run the `voice_assistant.py` script in Python. The program will prompt you to speak your input, and it will respond with a synthesized voice message.

You can use a number of different commands to interact with Voice Assistant. Some examples include:

- "Wikipedia Albert Einstein" to search Wikipedia for information on Albert Einstein
- "Time" to get the current time
- "Search Python programming" to search the web for information on Python programming
- "Calculate the area of a circle with radius 5" to get the answer to a math question
- "What is the capital of France?" to get the answer to a general knowledge question
- "Open google" to open the Google homepage
- "Youtube funny cat videos" to search YouTube for funny cat videos
- "Open word" to open Microsoft Word

You can also stop the program at any time by saying "stop," "exit," or "bye."