

# Readme file

## Speakify

Speakify is a powerful Python-based application for \*\*Text-to-Voice\*\* and \*\*Voice-to-Text and image\*\* functionality

It allows you to convert written text into lifelike speech and transcribe spoken words into text effortlessly.

## Requirements:

**Sounddevice:**Records audio from the microphone.

- **scipy:**Handles WAV file operations, such as saving recorded audio.
- **speech\_recognition:**Converts recorded audio to text using APIs like Google Speech-to-Text.
- **requests:**Sends HTTP requests to interact with APIs (e.g., Unsplash API).
- **Pillow (PIL):**Processes images, including loading, manipulating, and saving them.
- **io:**Provides the BytesIO class to handle binary data streams (e.g., downloaded image data).
- **gtts:**Converts text into speech using Google Text-to-Speech.
- **os:**Executes system-level commands, such as playing audio files.
- **gradio:**Builds an interactive web-based GUI for the app.

## Features

- **\*\*Text-to-Voice\*\*:** Convert any written text into clear and natural-sounding audio.
- **\*\*Voice-to-Text and image\*\*:** Accurately transcribe spoken words into text for easy documentation or note-taking and create images according to it.

- **How to Use**

- **Text-to-Voice**

1. Run the script:

```
```bash
```

```
python text_to_audio_with_output.py
```

```
...
```

2. Enter the text you want to convert into audio.

3. Specify an output file name (e.g., `output.mp3`).

4. The application will save the audio file in the specified location.

- **Voice-to-Text**

1. Use a compatible script for speech recognition:

```
```bash
```

```
python voice_to_text.py
```

```
...
```

2. Speak into the microphone when prompted.

3. The application will transcribe your speech into text and image and display it on the screen.

- **Contributing**

Contributions are welcome! Feel free to open issues or submit pull requests for improvements.

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\*\*Developed with ❤ by Ronak Singh....