**Requirements**

**1. Hardware Requirements**

* **Computer**: A computer with at least 4GB of RAM and a dual-core processor is recommended for optimal performance.
* **Microphone**: A functioning microphone (built-in or external) for capturing voice commands.
* **Speaker**: Speakers or headphones for audio output from the text-to-speech feature.

**2. Software Requirements**

* **Operating System**: The virtual assistant can run on any of the following:
  + Windows 10 or later
  + macOS (latest version)
  + Linux (Ubuntu 18.04 or later)
* **Python Version**: Python 3.6 or higher is required to run the project.
* **Libraries**: The following libraries must be installed:
  + Tkinter (for GUI)
  + Pillow (for image handling)
  + SpeechRecognition (for speech-to-text functionality)
  + Pyttsx3 (for text-to-speech functionality)
  + Webbrowser (for opening websites)
  + Requests (for making HTTP requests to fetch weather data)
  + PyAudio (for microphone input)

**3. Other Requirements**

* **OpenWeatherMap API Key**: You need to sign up for an OpenWeatherMap account to obtain an API key for fetching weather data. Replace the placeholder API key in the weather.py file with your actual key.
* **Internet Connection**: A stable internet connection is required to fetch weather data from the OpenWeatherMap API.

**4. Dataset**

* **Weather Data**: This project does not use a local dataset but relies on real-time weather data fetched from the OpenWeatherMap API. The assistant retrieves temperature and weather description for the specified city (default is Kathmandu).