Desktop Assistance

Project Overview:

This project is a desktop assistant built using Python that interacts with the user through voice and text commands. The assistant is capable of performing several tasks such as responding to greetings, providing the time, playing music, and opening websites like Google and ChatGPT. The assistant is designed to improve productivity by performing various automation tasks based on user input.

Technologies Used:

- Python: Main programming language used to build the assistant.
- pyttsx3: A text-to-speech conversion library that allows the assistant to respond via speech.
- Web browser: To open websites and web applications like Google and YouTube Music.
- datetime: For fetching the current time.
- OS: For system-level operations like shutting down the assistant.
- External Libraries: A placeholder for potential weather functionality via an external weather.py module.

Objective of the Project:

The objective is to create an interactive desktop assistant that can respond to natural language commands. It aims to increase user convenience by automating simple tasks such as providing time,

opening websites, and playing music. The assistant is designed to function in a continuous loop until the user decides to shut it down.

Challenges & Solutions:

1. Challenge: Integrating the weather functionality as it requires an external API or a module like weather.py that is not defined in the initial code.
   Solution: The weather functionality was planned to be imported from an external file, but error handling was included to handle the case when this service is unavailable.

2. Challenge: Managing speech and text-based interactions simultaneously.
   Solution: Used the pyttsx3 library to implement text-to-speech for a smooth user experience and ensure the assistant could engage in dialogue.

Key Features:

- Voice Interaction: The assistant can speak and respond to user queries like greetings, time, and other commands.
- Web Interaction: Can open websites like Google, YouTube Music, and ChatGPT based on user input.

- Customizable Commands: Users can extend functionality by adding more commands.
- Real-Time Responses: Provides current time, and can execute system shutdown operations.

Project Link and Screenshot :

GitHub Repository: https://github.com/Aakanksssha/Desktop-Assistance.git