Jenni - AI Voice Assistant

(Gummala Prashanth - AI developer)

Introduction

Jenni is an AI-powered voice assistant built using Python. It provides various functionalities, including voice commands, Wikipedia search, music playback, taking screenshots, telling jokes, and system control operations like shutdown and restart. Jenni interacts with users using speech recognition and text-to-speech synthesis.
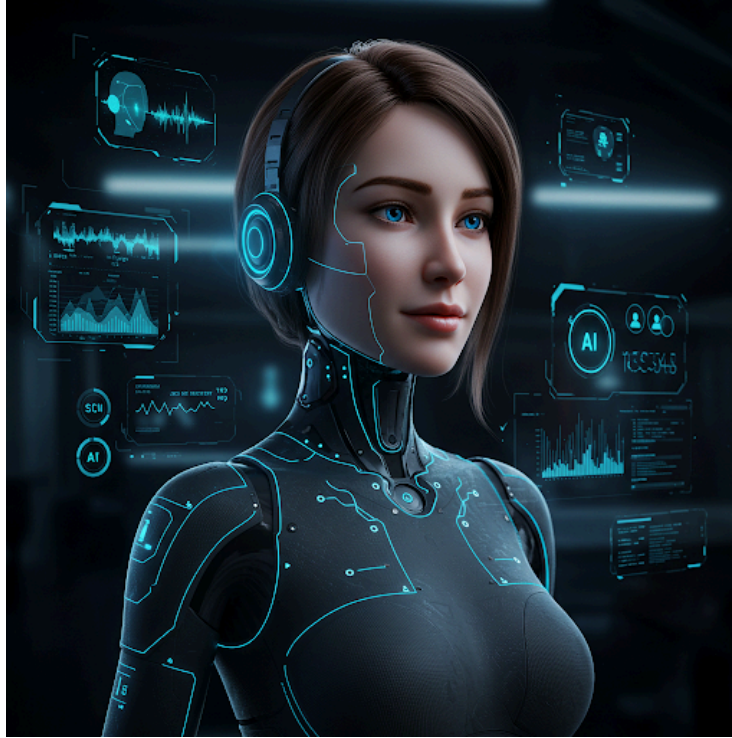
Features

- **Voice Commands**: Execute commands using voice input.
- **Time and Date**: Get the current time and date.
- **Wikipedia Search**: Retrieve short summaries from Wikipedia.
- **Music Playback**: Play music from the local system.
- **Web Browsing**: Open Google and YouTube.
- **Screenshot Capture**: Take and save a screenshot.
- **Personalization**: Change the assistant's name.
- **Joke Telling**: Hear a random joke.
- **System Control**: Shutdown or restart the computer.

Project Structure

```
jenni-assistant/
│ -- src/
│     ├── jenni.py        # Main program file
│ -- docs/
│     ├── documentation.pdf  # This document
│ -- images/
│     ├── screenshot.png  # Sample images
│ -- .gitignore
│ -- LICENSE
│ -- README.md
│ -- requirements.txt
```

Image

Installation

Prerequisites

Ensure you have Python installed (>=3.7). Required libraries:

pip install pyttsx3 SpeechRecognition wikipedia pyautogui pyjokes

Usage

Run the assistant:
 python src/jenni.py

    1.
    2. Speak your command when prompted.
    3. Jenni will respond accordingly.

Voice Commands

Here are some voice commands Jenni recognizes:

- "Tell me the time"
- "What is today's date?"
- "Search Wikipedia for [topic]"
- "Play music"
- "Take a screenshot"
- "Tell me a joke"
- "Open YouTube"
- "Open Google"
- "Shutdown the system"
- "Restart the system"
- "Exit" (to close Jenni)

Error Handling

- If speech is unclear, Jenni will prompt you to repeat.
- If Wikipedia search fails, it will suggest being more specific.
- If no music files are found, Jenni will notify the user.

Future Enhancements

- Integration with AI chat models for smarter conversations.
- Support for more applications like email and messaging.
- Enhanced NLP for better command understanding.

License

This project is open-source under the MIT License.

———————————————————————-THANK YOU ——————————————————————-