

CHITTI AI VOICE ASSISTANT

CHITTI is a Windows-based AI Voice Assistant built using Python, Eel, and Google Gemini API. It supports voice + text interaction, dynamic Windows app launching, web search, YouTube playback, and natural AI conversations, all through a futuristic desktop UI.

✨ Features

- 🎤 **Voice Interaction**
 - Speech recognition (mic input)
 - Female voice text-to-speech (TTS)
 - Start / stop speaking control
- 🧠 **AI Conversations**
 - Powered by Google Gemini
 - Context-aware responses (short-term memory)
 - Smart greetings & replies
- 💻 **Windows App Control**
 - Open any app available in Start Menu
 - Supports UWP & classic desktop apps
- 🌐 **Web & Media**
 - Google search (opens in Chrome by default)
 - YouTube playback via voice commands
- 🕒 **Smart Behaviour**
 - Time-based greetings (morning / afternoon / evening / night)
 - Wake word support ("Hey Chitti")
 - Graceful exit on "bye" or "exit"
- 🎨 **Modern UI**
 - Animated rotating rings
 - Speaking indicator
 - Chat-style assistant messages
 - Glassmorphism input console

🔧 TECH STACK

Component	Technology
Frontend	HTML, CSS, JavaScript
Backend	Python
Desktop Bridge	Eel
AI Model	Google Gemini
TTS	pyttsx3
Speech Recognition	SpeechRecognition + PyAudio
OS Support	Windows

Installation & Setup

Step 1: Clone the Repository.

Step 2: Create a virtual Environment and install the dependencies

```
bash

python -m venv .venv
.venv\Scripts\activate
```

Step 3: Create and set a GEMINI API KEY. Set it as an environment variable

```
powershell
```

```
setx GEMINI_API_KEY "YOUR_GEMINI_API_KEY"
```

Restart terminal after setting the key

Step 4: Run the assistant

```
bash
```

```
python main.py
```

Future Enhancements

- Multi-language support
- System controls (volume, brightness, battery)
- Auto-start on Windows boot
- Background listening mode

★ **If you like this project, don't forget to star the repo!**