Robert – Voice Assistant by Huzaifa Abdulrab

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Robert is a voice-controlled assistant developed by Huzaifa Abdulrab

INTRODUCTION

Robert is a voice-controlled assistant developed by **Huzaifa Abdulrab**, specifically designed to assist visually impaired individuals. It allows users to perform various tasks such as opening websites, searching online content, and playing videos through voice commands only. The assistant removes the need for screen-based interaction.

When the user says "Robert", the assistant activates and begins listening for commands.

Current Status

Currently, Robert functions as a Command-Line Interface (CLI) application. This means it is primarily usable by developers or individuals with basic knowledge of how to run Python programs in a terminal

Future Plans

Development is underway to convert Robert into a graphical desktop or mobile application so that even non-technical users can use it easily. This will make the assistant accessible to a broader audience.

Requirements

- ❖ Python installed on your system
- ❖ A properly working microphone
- ❖ Internet connection for online searches
- ❖ A quiet environment for accurate voice recognition

Note: If the microphone is not configured properly or background noise is high, Robert may not respond accurately.

How to Use (For Developers)

Step 1: Clone the Repository

git clone

https://github.com/Huzaifaabdulrab/huzaifa-voice-assistant

cd huzaifa-voice-assistant

Run File main.py

python main.py

Interaction Flow

1. Robert will introduce itself.
2. Wait until the introduction is finished.
3. Say "Robert" clearly and loudly.
4. Once activated, speak your command.

Supported Commands

User send command to Robert for example : robert intro complete user call
robert : Robert activate so user talk open Google robert listn and opening
google

- ❖ Open Google
- ❖ Open Facebook
- ❖ Open YouTube
- ❖ Open Twitter
- ❖ Open LinkedIn
- ❖ Open Instagram
- ❖ Open GitHub
- ❖ Open Wikipedia
- ❖ Open ChatGPT
- ❖ Open Quora
- ❖ Open Reddit
- ❖ Open OLX Pakistan
- ❖ Open Rozee.pk
- ❖ Open Pakistan Railway
- ❖ Open PTCL
- ❖ Open Telenor
- ❖ Open Microsoft
- ❖ OpenApple
- ❖ Open Tesla
- ❖ Open United Nations
- ❖ Open EasyPaisa
- ❖ Open Zameen.com

- ❖ Open Amazon
- ❖ Open Daraz
- ❖ Open AliExpress
- ❖ Open eBay
- ❖ Open Etsy
- ❖ Open Google Drive
- ❖ Open Google Docs
- ❖ Open Google Maps
- ❖ Open Dropbox
- ❖ Open Zoom
- ❖ Open Skype
- ❖ Open World Health
- ❖ Open Huzaifa Portfolio
- ❖ Open BBC News
- ❖ Open CNN
- ❖ Open The New York
- ❖ Times
- ❖ Open Dawn News
- ❖ Open Urdu Times
- ❖ Open Khanewal News
- ❖ Open Lahore News
- ❖ Open JazzCash

Most High Feature to User

YouTube Specific Features

Open YouTube

Command: "open YouTube"

Action: Opens the YouTube homepage.

Search on YouTube

Command: "youtube search [your topic] "

Action: Searches for your topic directly on YouTube.

Play YouTube Video

Command: "Youtube play [video name]"

Action: Plays the most relevant video matching your query.

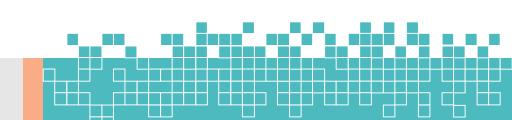### Google Specific Features

Open google

Command: "open google"

Action: Opens the YouTube homepage.

Search on Google

Command: "google search [your topic] "

Action: Searches for your topic directly on google.

Requirements

1. Ensure your microphone is working and configured properly.
2. Try to speak in a clear and loud voice.
3. Avoid speaking in a noisy environment.
4. The assistant will only respond if it correctly hears and understands the trigger word ("Robert") and commands.

Limitations

1. Requires Internet (no offline mode yet)
2. Doesn't work properly in noisy environments
3. No GUI for users (yet)
4. Can't handle dynamic input like booking, email sending etc.

Future Enhancements

Feature Idea

➢ GUI VersionDesktop/mobile app with clickable buttons for accessibility
➢ Offline Mode
➢ Local voice recognition for basic tasks
➢ Multi-language SupportUrdu, Punjabi, etc.
➢ Calendar & Email CommandsVoice-based Gmail sending, reminders, etc.
➢ Voice-based Gmail sending, reminders, etc.WhatsApp Message Integration Send/receive WhatsApp messages

Frequently Asked Questions (FAQs)

Q1: Why is Robert not responding to my commands?
A: Make sure your microphone is connected properly and there is minimal background noise. Also, ensure you say "Robert" clearly to activate the assistant.

Q2: Can I use Robert without an internet connection?
A: No, Robert requires an internet connection for speech recognition and to perform online searches or open websites.

Q6: Does Robert start accepting commands immediately after running the file?
A: No. When you run the main.py file, Robert first gives an introduction. During this time, it does not accept any commands.

Q7: Can we give commands directly after the introduction?
A: No. After the introduction is complete, you must first say **"Robert"** to activate the assistant. Only then can you give commands like "Open YouTube" or "Search on Google", and Robert will respond accordingly.

Q3: Can I use Robert on my mobile phone?
A: Currently, Robert is designed for desktops or laptops. Mobile support may be added in the future.

Q4: How do I stop Robert once it's running?
A: Say "exit" or "stop" to terminate the assistant.

Q5: Can I add more commands to Robert?
A: Yes, if you're a developer, you can extend the functionality by editing the web.py file in the project.