Virtual Personal Assistant
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Submitted to

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Introduction

- Personal Virtual Assistants are programs that help us to ease our day to day tasks, such as taking a note, search on browsers etc.
- They can take commands via text (online chat bots) or by voice.
- Voice based intelligent assistants need an invoking word or wake word to activate the listener, followed by the command.
- For our project the wake up word is used.
- We have so many virtual assistants, such as Apple’s Siri, Amazon’s Alexa and Microsoft’s Cortana. We aims to develop our system from the inspiration of the current virtual assistants.

02

Objectives

- As a personal assistant, Jarvis **assists the end-user with day-to-day activities like general human conversation**, searching queries in various search engines like Google, Bing or Yahoo, Searching for videos, etc.
- Virtual assistants can tremendously save our time. JARVIS can do that for us.
- One of the main advantages of voice searches is their rapidity. In fact, voice is reputed to be four times faster than a written search: whereas we can write about 40 words per minute, we are capable of speaking around 150 during the same period of time.

03

Description of the System

- We aims to build a system to being capable of voice interaction, music playback, making notes, setting alarms, providing weather condition and other real-time information, such as news.
- This Virtual assistant enable users to speak natural language voice commands in order to operate the system.
- In this ever-evolving digital world where speed, efficiency, and convenience are constantly being optimized.The mass adoption of artificial intelligence in users' everyday lives is also fueling the
- shift towards voice. It's clear that we are moving towards less screen interaction.

04

System Architecture

Activity Diagram

Use case Diagram

05

Software Specification

This system is being built keeping in mind the generally available hardware and software compatibility. Here are the minimum software requirements for our project.

- Windows 10 or above
- Python 3.8 or later
- Pycharm

06

Future Works

- We plan to Integrate Jarvis with IoT to do home automation tasks.
- Further, in the long run, Jarvis is planned to add more features so that it can become more intelligent.

07

Conclusion

- As a personal assistant, Jarvis assists the user with day-to-day activities. We tried our best to make it user-friendly.
- The main reason for choosing this project is to make users' life easier with technology.
- We aim to make this project smart enough for the users to make their life a little bit easier.

08

Reference

Websites

- www.pythonprogramming.net
- www.codecademy.com
- www.tutorialspoint.com
- www.google.co.in

YouTube Channels

- CS Dojo
- Edureka!

Thanks!

Do you have any question?