# SYNOPSIS

## PROJECT TITLE

"Virtual Assistant Like Jarvis"



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# INDEX

# INTRODUCTION

A virtual assistant is an intelligent application that can perform tasks or provide services for a person responding to orders or inquiries. Some VAs can understand and respond to human speech using synthesized voices. An intelligent virtual assistant (IVA) or intelligent personal assistant (IPA) is a software agent that can perform tasks or services for an individuals based on commands or questions. Virtual assistant are an exciting new technology being used an increasing number of places and use cases. The odds are good that you have interacted with a virtual assistant. From the assistants on our phones (Hey Siri!), to automated customer service agents, to email filtering system, virtual assistant technology is widespread and growing in use.

A virtual assistant, also called an AI assistant or digital assistant, is an application program that understands naturals language voice commands and complete tasks for the user. We all know what is Virtual Assistant. Ok Google,  Hey Siri all these are the example of Virtual Assistant.

# PROBLEM STATEMENT

One of the biggest problems that I have identified is neglecting the development of soft skills. I am talking about sharp focus, listening, thorough comprehension and communication etiquette. For any VA those skills are the basis for providing exceptional service to their clients, it also impacts on their ability to "sell" their services to a client. Usually, the misunderstandings and mismatches happen when a VA isn't able to build a relationship with the client, or isn't able to fully understand the requirements, and, therefore, deliver.

# OBJECTIVE

A virtual assistant is a self- employed worker who specializes in offering administrative services to clients from a remote location, usually a home office. Typical tasks a virtual assistant might perform include scheduling appointments, making phone calls, making travel arrangements, and managing email accounts.

Some virtual assistants specialize in offering graphic design, blog writing, bookkeeping, social media, and marketing services. For an employer, one advantage of hiring a virtual assistant is the flexibility to contract for just the services they need.

A virtual assistant is an independent contractor who provides administrative services to clients while operating outside of the client's office. A virtual assistant typically operates from a home office but can access the necessary planning documents, such as shared calendars, remotely.

# TECHNOLOGY

IDE: PyCharm and Vs Code.

Language: Python.

Python Library: Speech Recognition, Pyttsx3, PyAudio, Datetime, PyWhatkit, Wikipedia, Pyjokes.

**Speech Recognition:** Speech Recognition is a powerful, free library designed to recognize speech, enabling you to convert voice commands into a format your program can interact with. The speech recognition package works with many different engines or APIs like Wit.ai, CMU Sphinx, Microsoft Bing Voice Recognition, and Google Cloud Speech API.

**Pyttsx3**: Pyttsx3 is a text-to-speech package which lets you synthesize text into audio. The package is a free and convenient way to convert text to audio, so that you can have your digital assistant speak to your user. Pyttsx3 supports both Windows and Mac, and it is also compatible with speak.

Datetime: Date and time are not a data types of their own, but module named datetime can be imported to work with the date as well as time.

PyAudio:  It is a package for Python that allows it to interface with the cross-platform audio library I/O, enabling Python to be used on various platforms to record/play audio.

Pywhatkit:   It opens the YouTube in your default browser and plays the video you mentioned in the function. If you pass the topic name as parameter, it plays the random video on that topic.

Wikipedia:  Wikipedia is the single largest source of information, and therefore it is important to know how to fetch data from various sources.

**Pyjokes:** It is a python library that is used to create on-line jokes for programmers. It can also be referred as a fun python library which is pretty simple to use.

# CONCLUSION AND FUTURE SCOPE

- You can reduce the workforce of your office by implementing AI Virtual Assistant for customer care, having 24 hours of customer care would also help you to connect with your customers better and keep them happy.

- **Virtual assistant voice bot** and speech recognition software, any E-com site can create an amazing customer support team. It is going to improve workflow, customer satisfaction, sales, and improve your recommendation to your clients.

- **Virtual Assistant can also create personalized emails** for all your clients and take notes of important key points during a meeting.

- A Virtual Assistant can provide you with all the daily updates and provide you with information on the go.

# TIME FRAME REQUIRED FOR VARIOUS STAGES OF PROJECT

| Sr No. | PHASES | TIME DURATION |
|--------|--------|---------------|
| 1. | Problem identification | 1 weeks |
| 2. | Learning Phase | 2 weeks |
| 3. | Coding | 1 weeks |
| 4. | Final testing and deployment | 2 weeks |

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