Synopsis

**ON**

**“SSP Assistent”**

**In partial fulfillment of the requirements for the award of the Degree of**

**Bachelor of Technology in**

**Computer Science & Engineering**



**Submitted To:- Submitted By :-**

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**INTRODUCTION**

**AIM**

**We** wear try to create a virtual assistant.we will take name (SSP) of that software.

A full form of that name is ( S = Sharandeep Singh, S = Sikander Kumar, and P = Parteek Chawla ). an (SSP) Software agent that will perform tasks or services for an individual based on commands or questions. We will make sure that your virtual assistants (SSP) will able to interpret human speech and respond with synthetic voices. Users can ask their assistants questions, control home automation devices and media playback via voice, and manage other basic tasks such as email, to-do lists, and calendars with verbal (spoken?) commands.

To develop personal AI assistant with the help of python programming.The purpose of this project was to continously interact with system and enhance communication skills.

AI assistants are being created to help and enhance their human counterparts making us more efficient, and helping us optimise our time and resources. customer service, and superior user experiences.

Any way ,from developer points of view,this was very beneficail as startup project as working with an AI personal assistant! The main aim was to make application which can to be run in any device in which user can to be.

**NEED**

**→ No entrepreneur is a Superman!**

You cannot work on all the tasks yourself. Having an EXTRA HAND on projects is essential to your business growth.

Help your virtual assistant to develop a complete understanding of your business ethics and policies. Open up the virtual floor, and allow him/her to share ideas.

#### **→ Access to The Best Talent**

There are several benefits of hiring a virtual assistant.

Your Virtual Assistants understand your business thoroughly. As a result, you would see that knowledge getting reflected in each and every task performed by them.

**Want to know the best part?**

While hiring a VA, you don’t have to be bothered about the geographical restrictions. This allows you free access to world-class talent.

Thus, better options become available at comparatively lower costs. It means your business is sure to shine.

#### **→ Decreased Operational Costs**

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#### **Be wise as far as your money is concerned.**

Many entrepreneurs find it hard to cope up with their expenses. Getting some tasks outsourced is one of the perfect money saving options for entrepreneurs.

**Feasibility study:**

**The** feasibility study will examined the possibility of using an independent voice recognition system as the input device will converts into text. It will takes input as user voice and it will give output as text .

The voice recognition system worked in an integrated voice based delivery system for the purpose of delivering instruction.

This feature increased the usefulness and flexibility of the project.

Quepy is a python framework to transform natural language question to quaries in a database query language.It can be easily customized to different kinds of questions in natural language and database quaries.

pyttsx stands for python text to speech.It is a cross platform python wrapper for text to speech synthesis.It is a python package supporting common text-to speech engines on windows.It also works for python latest versions.Its main advantage was that it works offline.

web browser is also helpfull package in python.As it works very efficiantly as it was connected through internet.It finds every details of object which was commanded by user.

As from above result this project was purely feasible becouse it was perfect wheather from technical view or from logical and most importrant economical point of view

**Features:**

**Speech recognization.**

**Chat assistant.**

**Virtual personal assistant.**

**Time based reminders.**

**Speech to text.**

**Text to speech.**

**Calls and messaging.**

**Wheather reporting.**

**INTRODUCTION TO THE TECHNOLOGIES**

# We used many new and latest technologies and

# programming languages for developing the project. We

# used:

# 1: **Python**

# 2: **Machine Learning**

# **\*PYTHON :**

# **Python** is an [interpreted](https://en.wikipedia.org/wiki/Interpreted_language), [high-level](https://en.wikipedia.org/wiki/High-level_programming_language) and [general-purpose programming language](https://en.wikipedia.org/wiki/General-purpose_programming_language). Python's design philosophy emphasizes [code readability](https://en.wikipedia.org/wiki/Code_readability) with its notable use of [significant indentation](https://en.wikipedia.org/wiki/Off-side_rule). Its [language constructs](https://en.wikipedia.org/wiki/Language_construct) and [object-oriented](https://en.wikipedia.org/wiki/Object-oriented_programming) approach aim to help [programmers](https://en.wikipedia.org/wiki/Programmers) write clear, logical code for small and large-scale projects.

# **-->Libraries**

Python's large [standard library](https://en.wikipedia.org/wiki/Standard_library), commonly cited as one of its greatest strengths, provides tools suited to many tasks. For Internet-facing applications, many standard formats and protocols such as [MIME](https://en.wikipedia.org/wiki/MIME) and [HTTP](https://en.wikipedia.org/wiki/Hypertext_Transfer_Protocol) are supported. It includes modules for creating [graphical user interfaces](https://en.wikipedia.org/wiki/Graphical_user_interface), connecting to [relational databases](https://en.wikipedia.org/wiki/Relational_database), [generating pseudorandom numbers](https://en.wikipedia.org/wiki/Pseudorandom_number_generator), arithmetic with arbitrary-precision decimals, manipulating [regular expressions](https://en.wikipedia.org/wiki/Regular_expression), and [unit testing](https://en.wikipedia.org/wiki/Unit_testing)

we will also use some of them in this assistant. That make our work more easy in future

# **-→S*OME LIBERARY* are Writen as following**

# Import speech recognition

# Import playsound

# Import date time

# Import webbrowser

# Import wikipedia

# **\*Machine Learning :**

# [*Machine learning*](https://in.springboard.com/blog/machine-learning-introduction/) *is a subset of artificial intelligence that provides computer systems with the ability to automatically learn and make predictions based on the fed data. Predictions could be anything – whether the word “book” in a sentence means making an appointment or a paperback, whether an image has a cat or a dog, identifying if an email is a spam or not. In machine learning, a programmer doesn’t write the code that instructs the machine learning system on how to tell the difference between the image of a cat and a dog. Instead, machine learning models are developed that are taught how to differentiate between a dog and a cat by training on large samples of data (in this case, the system is fed with diverse and huge numbers of images labeled as cat and dog). The end goal of machine learning is to let systems learn automatically without human intervention and perform actions accordingly*

***References***