

Innovative Assignment

Programming For Scientific Computing

Virtual Assistant AI-Alexa



A PROJECT REPORT

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1. Project Summary :

- The Virtual Assistant AI-Alexa is a product specialist that can perform assignments or administrations for an individual dependent on orders or questions.
- Virtual assistants typically perform simple jobs for end users, such as playing music; sending mail; providing information that would normally be searched in a web browser.
- The term "chatbot" is sometimes used to refer to virtual assistants generally or specifically accessed by online chat.
- Here, Also We have used GUI for user interaction to make the program look more better.
- Users also task virtual assistants create text messages, stream online on youtube, open code, to tell time, to listen joke etc.
- It would also be used as a smartphone mobile software for performing various tasks and also used as a perfect time for jokes and talking software to avoid every day monotonous behaviour.

2. Modules Required :

I. pyttsx3 :-

- pyttsx3 is a text-to-speech conversion library in Python. Unlike alternative libraries, it works offline, and is compatible with both Python 2 and 3.

II. speechRecognition :-

- Speech recognition, the ability of devices to respond to spoken commands. Speech recognition enables hands-free control of various devices and equipment (a particular boon to many disabled persons), provides input to automatic translation, and creates print-ready dictation.

III. Datetime :-

- The datetime module supplies classes for manipulating dates and times.
- While date and time arithmetic is supported, the focus of the implementation is on efficient attribute extraction for output formatting and manipulation.

IV. Wikipedia :-

- Wikipedia is a Python library that makes it easy to access and parse data from Wikipedia.
- Search Wikipedia, get article summaries, get data like links and images from a page, and more. Wikipedia

wraps the MediaWiki API so you can focus on using Wikipedia data, not getting it.

V. Webbrowser :-

- According to Python's standard documentation, the webbrowser module provides a high-level interface to allow displaying Web-based documents to users. This topic explains and demonstrates proper usage of the webbrowser module.

VI. Os:-

- The OS module in Python provides functions for interacting with the operating system. OS comes under Python's standard utility modules. This module provides a portable way of using operating system-dependent functionality.

VII. Smtplib:-

- Simple Mail Transfer Protocol (SMTP) is a protocol, which handles sending e-mail and routing e-mail between mail servers.
- Python provides **smtplib** module, which defines an SMTP client session object that can be used to send mail to any Internet machine with an SMTP or ESMTP listener daemon.

VIII. PyWhatKit :-

- PyWhatKit is a Python library for Sending whatsapp message at certain time, it has several other features too. It is one of the safest tools for scheduling WhatsApp messages.

IX. Pyjokes :-

- One line jokes for programmers (jokes as a service).

X. Tkinter :-

- Tkinter is the standard GUI library for Python. Python when combined with Tkinter provides a fast and easy way to create GUI applications. Tkinter provides a powerful object-oriented interface to the Tk GUI toolkit.

3. Functionalities Performed:

- ❖ Searching Information In Wikipedia.
- ❖ To Play Music Streaming Online.
- ❖ Stream On Youtube.
- ❖ Sent Message In Whatsapp.
- ❖ Opening Google.
- ❖ To Open Stack Over Flow.
- ❖ To Play Music From Local Machine.
- ❖ To Know The Standard Time.
- ❖ To Open Source Code.
- ❖ To Listen Jokes.
- ❖ To Sent An Email.

Screenshot Of Project :-

