



SPEAK EASY

A MINI PROJECT BY

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INTRODUCTION

SpeakEasy (Info Bot) is based on Text-to-speech systems, also known as TTS which , were first developed to aid the visually impaired by offering a computer-generated spoken voice that would “read” text to the user.

It provides the information in a simple format as the result will be handy inform of voice output.

PYTHON

Advantages :

- Presence of third-party modules
- Extensive support libraries(NumPy for numerical calculations, Pandas for data analytics etc)
- Open source and community development
- Easy to learn
- User-friendly data structures
- High-level language
- Dynamically typed language(No need to mention data type based on value assigned, it takes data type)
- Object-oriented language
- Portable and Interactive
- Portable across Operating systems

ORGANIZATIONS USING PYTHON

- 1) Google(Components of Google spider and Search Engine)
- 2) Yahoo(Maps)
- 3) YouTube
- 4) Mozilla
- 5) Dropbox
- 6) Microsoft
- 7) Cisco
- 8) Spotify
- 9) Quora

WHAT IS THE NEED OF THIS APPLICATION?

- Searching for required information through browser was a tedious process .
- User friendly interface .
- Provides the information in a simple format.
- Voice output.
- Visually impaired.




HOW IS SPEAK EASY MORE EFFICIENT?

- Simple Search Engine platform
- It bypasses the pop-ups , advertisements , irrelevant data and doesn't create cookies like the browser does.
- Only meant for retrieval of information based on the keyword given as an input by the user.





DESIGN

BASED ON:

- Text-to-speech synthesizer system
 - Wikipedia module
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THREE MAJOR MODULES USED

1. Speech synthesis (Pyttsx3 module)
 2. GUI (Tkinter)
 3. Wikipedia module
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PYTTSX3 MODULE

- pyttsx3 is a text-to-speech conversion library in Python.
- `pip install pyttsx3`

TKINTER MODULE

- Tkinter is a Python binding to the Tk GUI toolkit.
- Python with tkinter is the fastest and easiest way to create the GUI applications.
- **To create a tkinter app:**

Importing the module – tkinter

Create the main window (container)

Add any number of widgets to the main window




Apply the event Trigger on the widgets

WIKIPEDIA MODULE

- **Wikipedia** is a multilingual online encyclopedia created and maintained as an open collaboration project by a community of volunteer editors using a wiki-based editing system.
- Wikipedia is a Python library that makes it easy to access and parse data from Wikipedia Search
- `pip install Wikipedia`



TOOLS USED

- Speech synthesis tool
 - Python IDE
 - GUI integration using Tkinter
 - Python 3.8.0 Console
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EXECUTION AND OUTPUT

SpeakEasy-->InfoBot

TOPIC

Black hole

INFO ->

A black hole is a region of spacetime where gravity is so strong that nothing—no particles or even electromagnetic radiation such as light—can escape from it. The theory of general relativity predicts that a sufficiently compact mass can deform spacetime to form a black hole. The boundary of the region from which no escape is possible is called the event horizon.

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CLEAR

EXIT

CONCLUSION

Just as users got used to mobile devices instead of home phones, text messages as the new email , social media as the new word-of-mouth; it is likely that speech synthesis/speech recognition will eventually become the core of developing TTS/SS which is being used in AI.

The image features a dark blue gradient background. In the corners, there are decorative white line art elements resembling circuit boards or neural networks, with lines and small circles connecting them.

THANK YOU