

# AI & Application

**Project Title:** Speech Recognition System(Alexa)

## Description:

We made a speech recognition system(alexa) using python for this project. We included some of the below mentioned libraries:

## Code-

```
import speech_recognition as sr

import pyttsx3

import datetime

listener = sr.Recognizer()

engine = pyttsx3.init()

voices = engine.getProperty('voices')

engine.setProperty('voice',voices[1].id)

def talk(text):

    engine.say(text)

    engine.runAndWait()

global command

def take_command():
```

try:

with sr.Microphone() as source:

print("listening.....")

voice = listener.listen(source)

command = listener.recognize\_google(voice)

command = command.lower()

if 'alexa' in command:

command = command.replace('alexa', '')

print(command)

except:

pass

return command

def run\_alexa():

command = take\_command()

print(command)

if 'time' in command:

time = datetime.datetime.now().strftime('%H:%M %p')

print(time)

talk('The current time is ' + time)

elif 'how are you' in command :

```
print('I am fine Thank you!')
```

```
talk('I am fine Thank you!')
```

elif 'what are you feeling' in command:

```
print('I am feeling good! how may i assist you.')
```

```
talk('I am feeling good! how may i assist you.')
```

```
run_alexa()
```