**Real time problem:**

Intelligent systems refer to different software tools that enable decision makers to draw knowledge and decision processes of experts in making decisions. To develop a Conversational Intelligent system that assists and supports ever-growing populace leaving no stone unturned in the search for solutions.

Domain – Conversational AI

**Overview:**

* Jarvis: An Intelligent System is a personal virtual assistant, that will assist in various day-to-day activities like general human conversation, searching queries in browser.
* With the main functional element as AIML, the system comprises of alternative enhancement compatibility mechanisms such as IBM Watson and Python.

**Objectives**

* To develop a Conversational Intelligent system that assists and supports ever-growing populace leaving no stone unturned in the search for solutions.
* It assists in various day-to-day activities like general human conversation, searching queries etc.
* To integrate different software tools that enable decision makers to draw knowledge and system that incorporates intelligence into applications being handled by machines.

**Proposed System:**

* A Desktop Application to assist and support ever-growing populace leaving no stone unturned in the search for solutions.
* The system provides spoken solution to any real-world problem. This is made possible with the integration of the most enhanced platform of the computer industry i.e. Artificial Intelligence.
* To create technologies that ably mimic what a human can say, think and do, which naturally won’t be affected by natural fragility

**Technical details:**

* With the main functional element as AIML, the system comprises of alternative enhancement compatibility mechanisms such as IBM Watson and Python.
* The initial data is processed by Speech Recognition package which converts the speech format to text and passes the parameters to the python interpreter, then the python interpreter parses the text into the AIML kernel.
* Jarvis can also respond for speaking 12 different languages using the IBM Watson.
* The data is then suspected by the intelligence and appropriate response is regenerated by the intelligence which is also parsed to the Python script.
* This data is consisting the final output desired by the end-user, so the text is coherently passed to the Text to speech engine which now converts the text input to speech using TTS.

**Technologies used:**

**Tools Used:**

1. Python Interpreter

2. IBM Watson

3. QT Designer

4. MySQL

5. Xampp

**Libraries Used:**

1. Pyttsx3

3. Aiml

4. Pyautogui

5. Smtplib

6. Wikipedia

7. Webbrowser

8. Pyjokes

9. Urllib

10.PyPDF2

11.PyQt5

12.Pywhatkit

**Future works:**

* Integration with Rasberry Pi
  + Jarvis, if integrated with Raspberry-Pi can innovate the concept to a whole new level by providing features like Google Home and Amazon Alexa.
* Self-Learning AI System
  + Jarvis can be transformed from a stable AI assistant into a dynamic self-learning AI system which will be more potent to the system itself.
* Integrated Automation
  + Jarvis can be reprogrammed to perform automation tasks such as: Home automation, industry automation, or Smart Homes / Societies