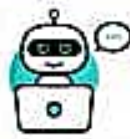




# Contents

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## Introduction

- ☐ Chatbot is an automated software program that interacts with humans using natural language.
- ☐ Chatbot are programs that work on Artificial Intelligence(AI) & Machine Learning platform.
- ☐ This software program conducts conversation with users via textual methods
- ☐ In this project, Chatbot is developed using python programming language in google collabs.



## ABSTRACT

- ❑ The application “CHATBOT USING PYTHON” is designed by python using JSON Database structure.
- ❑ A chatbot suits the user needs and requirements.
- ❑ Chatbots are usually a stateful services, remembering previous commands in order to provide functionality.
- ❑ It gives answers to the user in a text-based commands. The questions could be regarding college details.



## Existing system

- ❑ User need to personally visit the college and ask the college help desk , if the student have any queries about the college.
- ❑ It takes lot of time and money if the college is miles away from the student native place.

### DISADVANTAGE:

- ❑ The chat bot system is not known to people who do not have more knowledge about the technology
- ❑ Even if there exist a chatbot system , it is not much accurate in providing the answer or solution
- ❑ Also this process may lead to communication gap between student and college



## PROPOSED SYSTEM

- ❑ This application provides answer to the query of the student.
- ❑ Students have to query through the bot which is used for chatting.
- ❑ The system uses Built in tensorflow , tflearn libraries and NLP , Neural network concepts.
- ❑ The answers are appropriate what the user queries.





## ADVANTAGES OF PROPOSED SYSTEM

- ☐ Chat bot can run on local computers and phones , smart devices.
- ☐ Eliminates the requirement of any manpower during online interaction.
- ☐ Chat bot is typically perceived as engaging software entity.
- ☐ It is an extremely helpful and useful system for disabled people.



# SYSTEM REQUIREMENTS

## ❑ Software requirements

Operating system	:	Windows 10
Coding language	:	Python 3.8
Tool Used	:	Google Colab
Front end	:	HTML 5.2, CSS3
Data Base	:	MySQL 8.0.21

## ❑ Hardware requirements

Processor : intel core5

Hard disk : 250GB

Monitor : 15"LED

RAM : 4 GB

Input devices : Keyboard ,  
Mouse





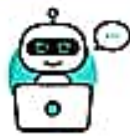
# MODULES

- ☐ User
- ☐ Chat Bot
- ☐ Information



## User Module

- ❑ Speech to Text: User will ask the computer to run command by giving input as speech.
- ❑ Command Execution: Based on command receive from the user, system will execute the command (if available).
- ❑ Text to Speech: Once a command is received, application speaks the command.



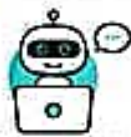
## Chatbot Module

- ☐ To make a conversation between both human and machine.
- ☐ The machine has been embedded knowledge to identify the sentences and making a decision itself.
- ☐ User can chat with the bot it implies as if enquiring to the college person about college related activities.



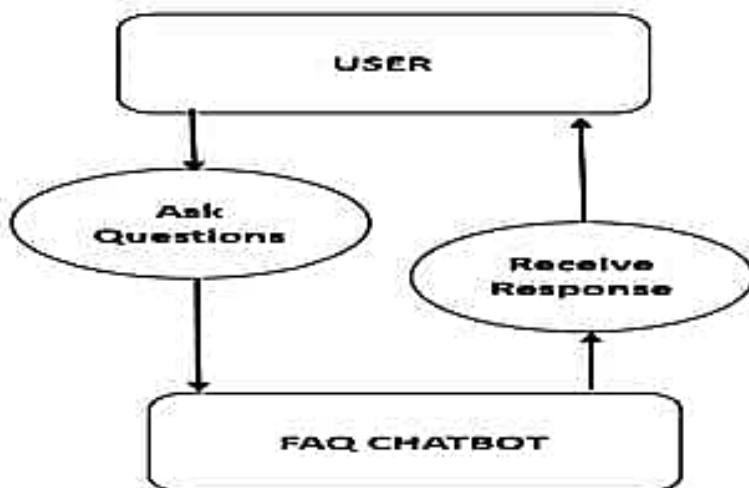
## Information Module

- ❑ This system can answer the questions asked by the user.
- ❑ The question relevant to college the system search and gives that particular college information.

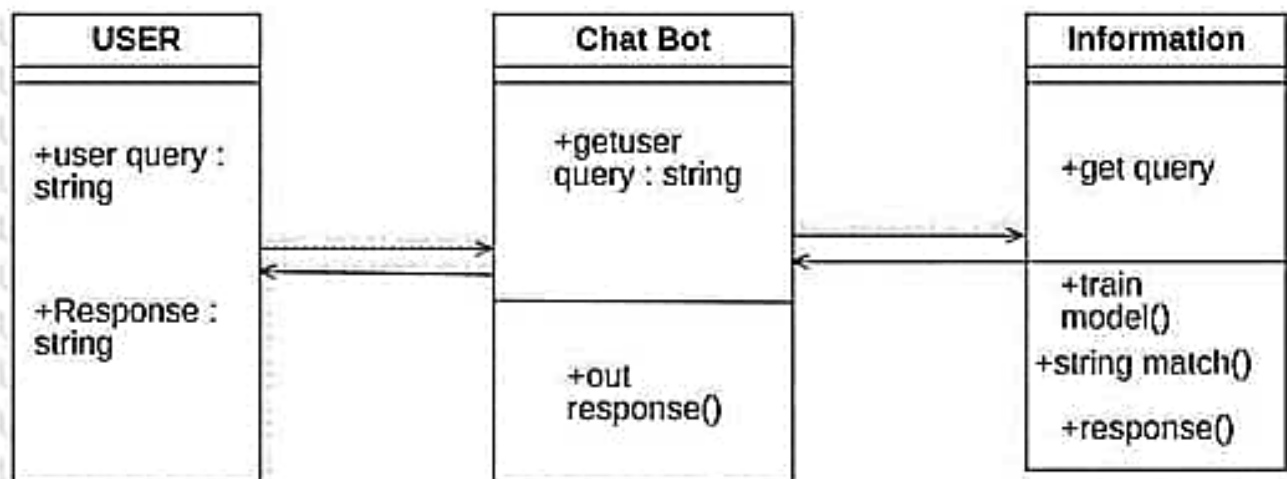


# UML DIAGRAMS

## □ USECASE DIAGRAM

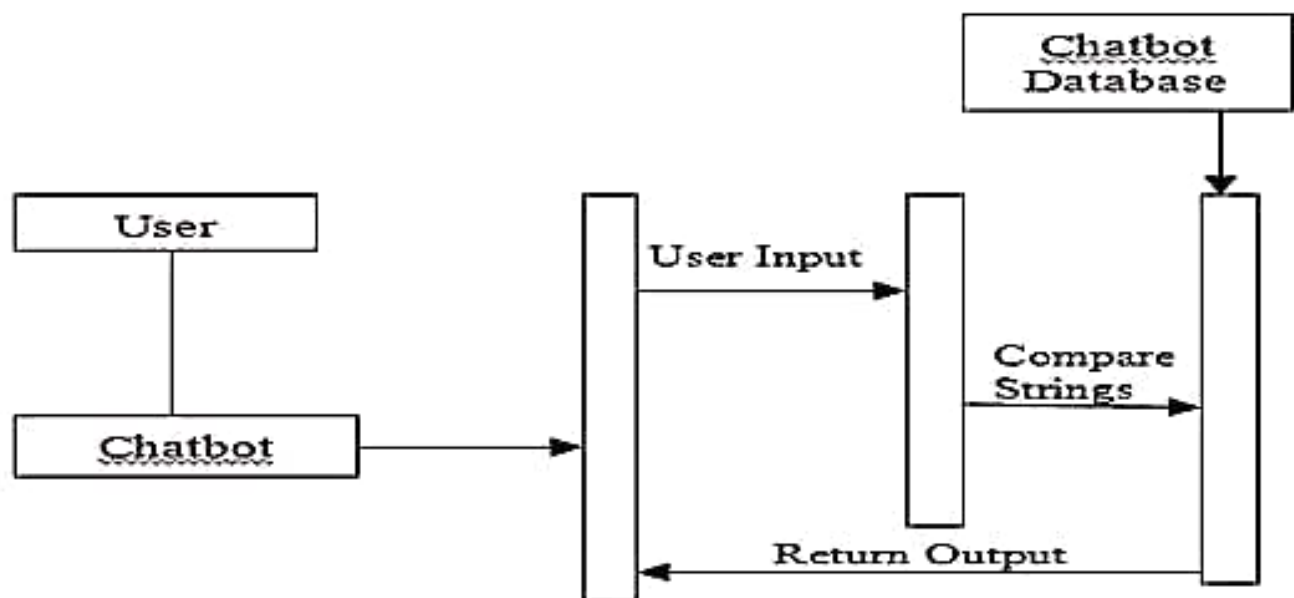


## □ CLASS DIAGRAM

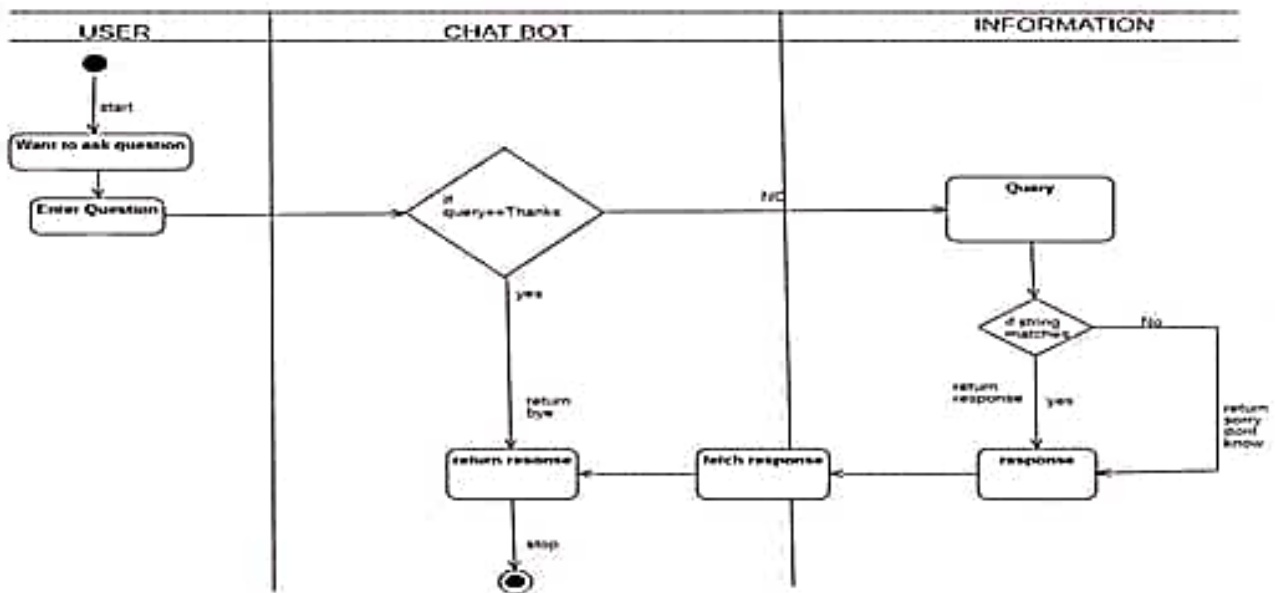




## ❑ SEQUENCE DIAGRAM



## □ ACTIVITY DIAGRAM





# Result

colab.research.google.com/drive/1V2YqldOwhxMw5P7NDO-DFFAJVMK6-a?scrollTo=DHd2YMDXQig2

Files

- sample\_data
- checkpoint
- data.pickle
- intents.json
- model.tflearn\_data-00000-of-00001
- model.tflearn.index
- model.tflearn.meta

```
results = model.predict([bag_of_words(inp, w
results_index = numpy.argmax(results)
tag = labels[results_index]

for tg in data["intents"]:
    if tg['tag'] == tag:
        responses = tg['responses']

print(random.choice(responses))

chat()
```

... Start talking with the bot (type quit to stop)  
You: hi  
Hello!  
You: see you later  
Talk to you later  
You: how old  
I am 18 years old!  
You: Thanks  
Hello!  
You: What hours are you open?  
We are open 9am-4pm Monday-Friday!

intents.json

```
25 g: "INTUACEK stands",
26 tterns": ["INTUACEK stands for", "what is
27 sponses": ["Jawaharlal Nehru Technologice
28
29 g: "location",
30 tterns": [ "What is your location?", "We
31 sponses": [ "We are on Madanapalli road,
32
33 g: "courses",
34 tterns": [ "What are the courses available
35 sponses": [ "We offer B.Tech course", "We
36
37 g: "B.Tech branches",
38 tterns": [ "What are the branches that yo
39 sponses": [ "We provide CIVIL, EEE, MECH,
40
41 g: "INTUACEK placements",
42 tterns": [ "What are the placements of IN
43 sponses": [ "more the 100+ students have
44 ntext_tst": "placements"
```

You: JNTUACEK full form

Jawaharlal Nehru Technological University Anantapur College of Engineering Kalikiri

You: Where are you located

We are on Madanapalli road, Kalikiri

You: What branches do you provide

we provide namely six branches they are cse, ece, eee, mech, civil, fdt

You: HOD of cse department

Dr. Shaik Naseera

You: JNTUACEK placements

more the 100+ students have been placed 2021 through out all branches

You: Principal of JNTUA Kalikiri

Dr. M. L. S DEVAKUMAR GARU

You: goodbye

see you later

You: quit



## How chatbot aid the Contemporary Society

- ☐ Chatbots are available immediately @24/7
- ☐ It increases sales as well as frame
- ☐ Provides wide range of applications in different industry and services
- ☐ Helps to search the information faster and better than humans
- ☐ It provides immediate feedback



## CONCLUSION

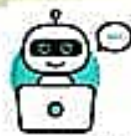
- ☐ This chatbot can answer to the queries in the textual user input.
- ☐ JSON file (which contains questions and its respective answers) has been created and loaded into the machine .
- ☐ Chatbot can answer to the queries asked by the user.
- ☐ In this project, chatbot contains the details about the college.





## Future scope

- ☐ It is getting more efficient day by day and the next scope is multilinguistic responses
- ☐ Voice-bots are also set to enhance the services
- ☐ Human alike
- ☐ Adoption of AI to make accurate predication for query



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THANK YOU