

# Chatbot

## **Team Members:**

Nishanth Goud Pendimukulla-1151478

Lokesh Punati-11514358

Rahul Mandalaju-11514828

## **Idea Description:**

Over the last few years, Chatbots have played a prominent role as human-computer interfaces. Chatbots are generally composed of three modules: the user interface, an interpreter, and a knowledge base. Laven defines Chatbot as a program that attempts to simulate typed conversation, with the aim of at least temporarily fooling the human into thinking they were talking to another person. Basically, chatbot is a conversational agent that can interact with user in a given subject using the natural language.

## **Goals and Objective:**

The Goal is to develop a The College Enquiry Chat Bot provides user an interface to type commands and receive information in the form of a text. It provides a state full services, remembering previous commands in order to provide functionality and flow of control. This can be easily integrated on any platform like web and mobile phones and also integrate on channels like skype, slack and messenger. The chat bot provides an efficient way of providing information using artificial intelligence and takes the role of customer care support and performs operations 24/7. The user queries are analyzed to understand the appropriate intent and matches the output message.

The user can query about the college related activities through online with the help of this web application. This system helps the student to be updated about the college activities.

## **Motivation:**

Problem with current scenario

- Traditionally, the chat bot system is not known to people who are not more into the technology.

- Even if there exist a chat bot system, it is not much accurate in proving the answer or solutions.
- Students need to manually visit to the college to get their queries answered by the college help desk.
- This process consumes lot of time as well as money as the customer needed to visit college if its miles away from home.
- Also, this process may lead to communication gap between student and college.

### **Significance:**

The main aim of implementing such a pedagogy was to engage the students in learning to which they personally relate while attaining intellectual rigor. Classroom experience indicates that students learn more effectively when the traditional objectivist approach is combined with a constructivist approach than when this orthodox approach to teaching programming to novices is used alone.

### **Literature Survey:**

Emanuela Haller and Traian Rebedea, "Designing a Chat-bot that Simulates an Historical Figure", IEEE Conference Publications, July 2013. There are many applications that are incorporating a human appearance and intending to simulate human dialog, but in most of the cases the knowledge of the conversational bot is stored in a database created by a human experts. However, very few researches have investigated the idea of creating a chat-bot with an artificial character and personality starting from web pages or plain text about a certain person. This paper describes an approach to the idea of identifying the most important facts in texts describing the life (including the personality) of an historical figure for building a conversational agent that could be used in middle-school CSCL scenarios.

Maja Pantic, Reinier Zwitserloot, and Robbert Jan Grootjans, "Teaching Introductory Artificial Intelligence Using A simple Agent Framework", IEEE Transactions On Education, Vol. 48, No. 3, August 2005. This paper describes a flexible method of teaching introductory artificial intelligence (AI) using a novel, Java-implemented, simple agent framework developed specifically for the purposes of this course. Although numerous agent frameworks have been proposed in the vast body of literature, none of these available frameworks proved to be simple enough to be used by first-year students of computer science. Hence, the authors set out to create a novel framework

### **Objective:**

The main objectives of the project were to develop an algorithm that will be used to identify answers related to user submitted questions. To develop a database where all the related data will be stored and to develop a web interface. The web

interface developed had two parts, one for simple users and one for the administrator.

### **Features:**

The student and parents can get information from chat bot instead of contacting the college support team every time.

The system also provides the analytic to provide the information of the queries which were found invalid to be evaluated by the admin later.

### **Expected Outcome:**

application which Don't pretend to be a human ,Keep it incredibly simple, Respect the chat medium ,Optimize for the end user ,Use sparingly

application which The User can query any college related activities through the system. The user does not have to personally go to the college for enquiry. The System analyzes the question and then answers to the user. The system answers to the query as if it is answered by the person.

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