

OPTIMUS CHATBOT

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Abstract:

Instead of offering direct touch with a real human agent, Chat-bots are software applications that conducts an online chat discussion using text or text-to-speech. Many specialised frameworks for generating and developing chatbots have emerged as a result of the rapid growth of technology and the establishment of the chatbot idea, as well as the time and work it may save [3-5]. By relying on artificial intelligence, the chatbot has incorporated machine learning, and it has become more complete and broader for a variety of technological disciplines [10-11]. Ai technology is now assisting the human touch in every discussion, enabling chatbots to grasp the user's inquiry and respond appropriately. For institution, we will create a chatbot. The project's purpose is to construct a chatbot that would make getting information about the university easier for students. The built-in artificial intelligence of the System responds to the enquiry [11]. The answers are pertinent to the user's inquiry. If the response is found to be incorrect, the user simply selects the invalid answer button, which sends an email to the administrator. By logging into the portal, administrators can check for invalid replies. The user can enquire about any college-related activity through the system. The system responds to the user after analysing the inquiry. The user can use this tool to look up information about college activities on the internet. This system keeps students up to date on what's going on on-campus. This proposed

chatbot detects the user context, which prompts a certain response purpose . The user's intended response will be constructed because it is a dynamic response. The lack of a university-level equivalent from past graduating projects is the driving force behind this project's work. To summarise, it comprises responding to people's often requested and common questions and providing responses whenever the individual chooses.

Keywords: Chatbot, Artificial Intelligence, Enquiry, Response, Query.

1.Introduction:

A chatbot, also known as a conversational agent, is a computer programme that can take natural language input and respond in real time with a conversational output. This human-chatbot interaction is usually done using a graphical user interface that follows HCI principles. Alan Turing proposed the concept of an intelligent machine engaged in human interactions in 1950. Bots, or automated computer programmes, were established shortly after to replicate human conversation. [3-5] For example, in 1966, ELIZA matched user prompts to scripted responses, and in 1995, Artificial Linguistic Internet Computer Entity (ALICE) used natural language processing to read user input. Chatbots are currently available on a variety of messaging systems, including Facebook Messenger, Skype, and Kik, and are mostly used for customer support [11].

2.Literature Review

Chat bots, also known as conversational interfaces, are a novel way for people to connect with computers. Asking a computer algorithm, a question, used to entail using a search engine or filling out a form. A chat bot allows users to ask questions in the same manner they would to a real person [7]. The most well-known chat bots are voice chat bots like Alexa and Siri. On the other hand, chat bots are now commonly employed on computer chat platforms. The technology at the heart of the chat bot's evolution is natural language processing (NLP). The preponderance of chat bot studies concentrated on algorithms and how to create a sophisticated conversation bot [2-5]. The outcomes of expert persons, as well as any software or programmes, are heavily reliant on this study. Chat bots are more effective than people in reaching out to a big audience via chat apps. They have the potential to become a major source of data in the future. The present study's purpose is to create a conversation bot with a wide range of features and knowledge about several natural language comprehension algorithms.

3.Problem Statement

Ai chatbot is a piece of software which allows humans and machines to communicate using natural language [2-4]. Chatbots provide services comparable to those provided by a regular search engine. The core process flow stays the same, with a new search being done each time an input is submitted, even if the chatbot only produced one output instead of numerous outcomes, nothing to do with what came before. The objective of this study is to turn a chatbot into a search engine that can handle subsequent searches depending on the results of prior ones. This functionality will improve the chatbot's input processing capability in the context of chatbots.

4.Proposed System

Artificial intelligence chatbot is a piece of software that allows humans and machines to communicate using natural language. Chatbots, according to the literature, provide functions comparison to conventional search engines. The core process flow stays the same, with a new search being done each time an input is submitted, even if the chatbot only produced one output instead of several outputs/results. The previous output has nothing to do about this. The study attempts to turn a chatbot into a search engine that can handle subsequent searches depending on previous searches' results. This functionality will improve the chatbot's input processing capability in the context of chatbots.

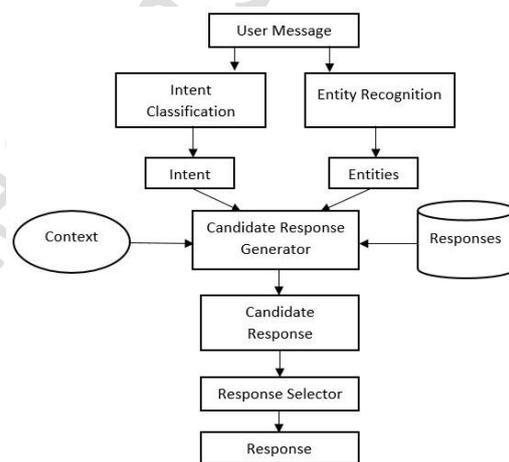


Fig.1: Flow Chart diagram for Optimus Chatbot

5.Applications

- Students can use a chatbot to find the appropriate knowledge source.
- The chatbot will respond in a timely and accurate manner.
- Colleges and enterprises can adopt the chatbot system.

5.Future Scope

We can enhance the Optimus chatbot in the future to make it more engaging in a variety of languages for users in diverse places. The future Optimus chatbot should not only give the student or parent an answer, but also a solution to their problem. In future our Optimus should be used by every university. In future the Optimus will be available in offline mode also.

6.Results and Discussion

The proposed system was put to the test and proved to be effective and feasible [Fig:1]. It saves manpower, time, and paper work for college administration. It also decreases students' efforts to travel long distances to learn about college. In this article, we created a chatbot that would interact with client and provide all university information. The chatbot facilitates communication between the user and the college administration (Fig:3-4-5-6). The college admin will update any inquiries that the chatbot does not answer.

Output:

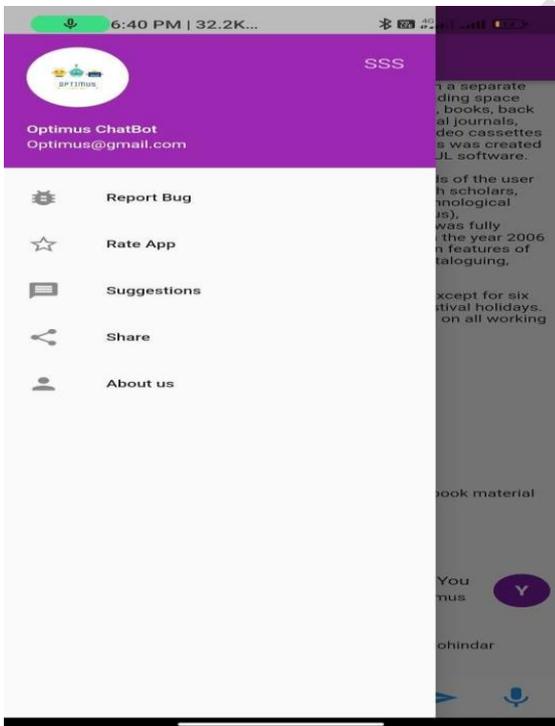


Fig.3:Navigation Bar

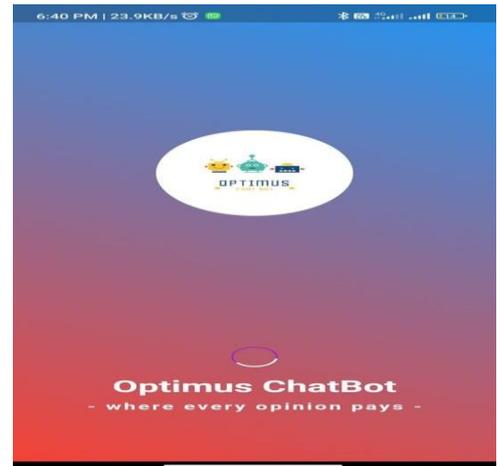


Fig:2 Splash Screen

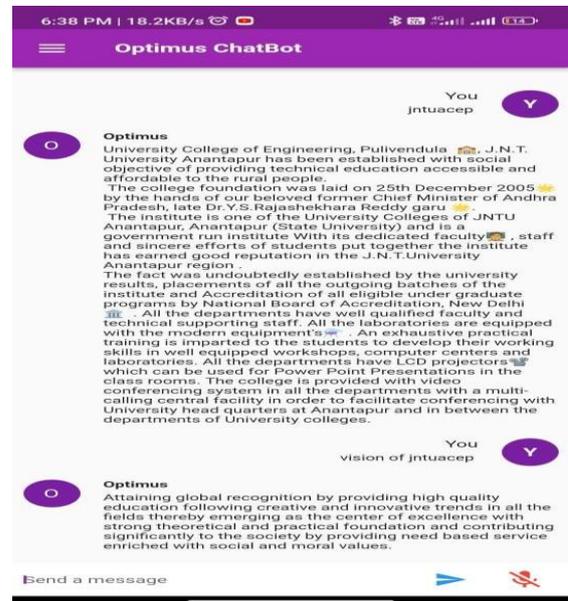


Fig.4: About college and Vision

Of college

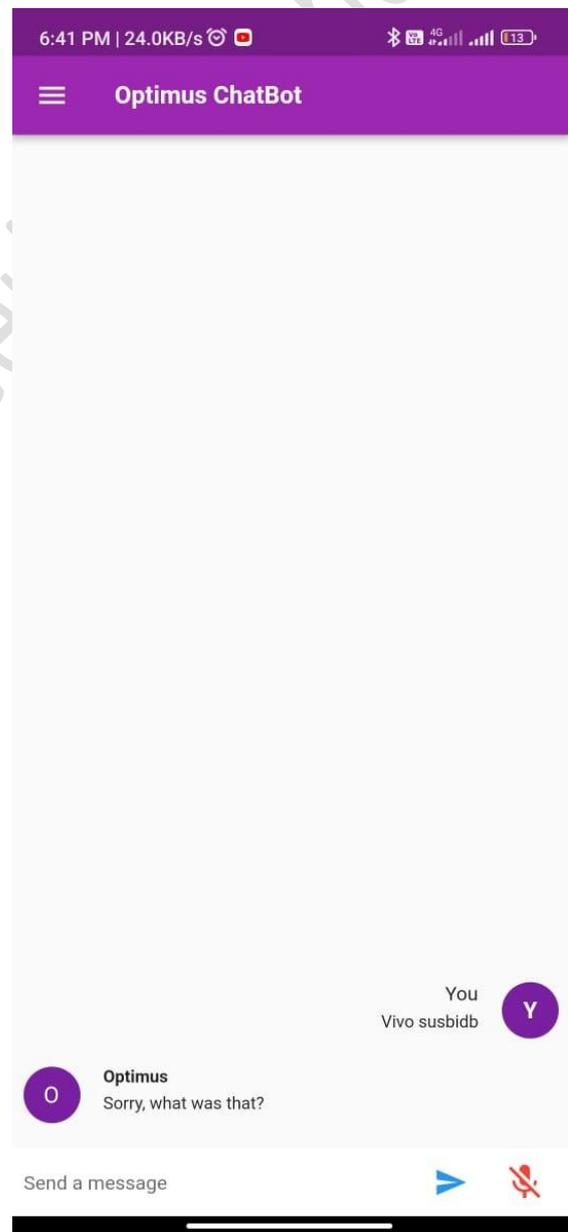
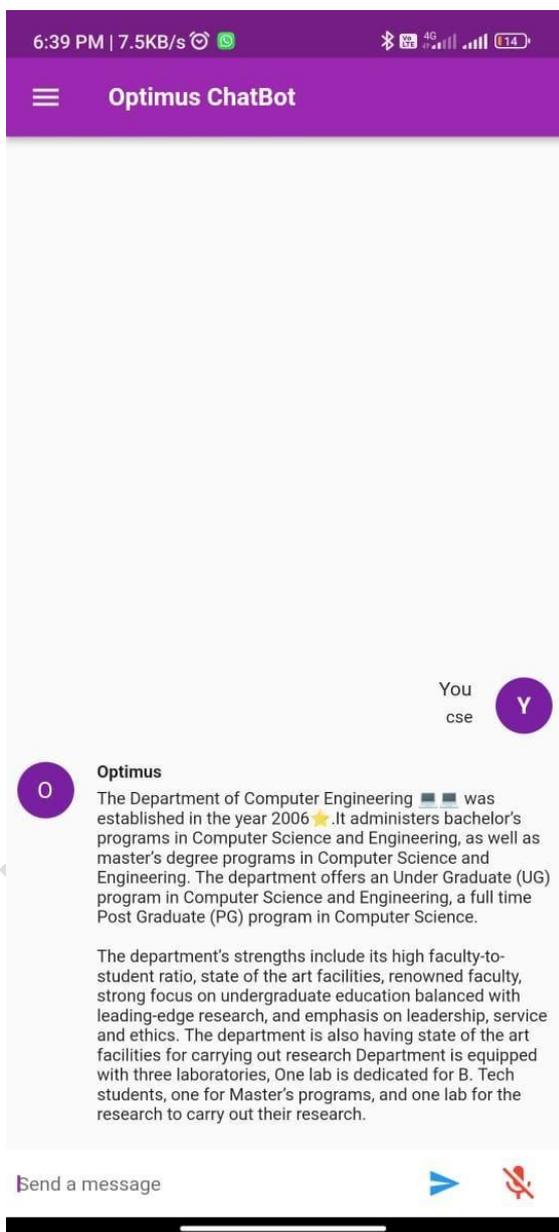


Fig.5:About Computer Science And
Department

Fig.6:Optimus reply to incorrect output

7.References

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