

AI Healthcare Chatbot

Manaswi Sambhar¹, Nisha Battul², Kartik Lakde³, Prof. Sonali Agale⁴

Students, Computer Engineering Diploma^{1,2,3}

Faculty, Department of Computer Engineering⁴

Shri Chhatrapati Shivaji Maharaj College of Engineering, Ahmadnagar, India
manaswisambhar@gmail.com¹, battulnisha@gmail.com², kartikdada8055@gmail.com³

Abstract: *Healthcare is very important in our day-to-day lives. It is very important to take proper precautions and medicines to protect your health as early as possible before it gets serious. It is not possible that the doctors are available 24 hours a day to assist and guide the patient. The virtual clinic doctor was available 24 hours a day to assist patients and guide them on how to recover from the symptoms they were facing. The main aim of making this AI healthcare chatbot is to assist and guide more than one patient at a time and reduce the cost and time for patients*

Keywords: ChatBot, Healthcare, Virtual Clinic, Artificial Intelligence, Virtual Doctor

I. INTRODUCTION

Computers give us as much information as we want. ChatBot is a computer program and artificial intelligence software that can do conversation through text messaging and voice. This system can learn from a knowledge base.

This is a fundamental system because knowledge is stored in advance. This system can work in the form of questions and answers, which means the chatbot in this system can answer the user's query. The main aim of developing this chatbot is to reduce healthcare costs and time for both the user and the doctor. It is not possible to visit the doctor immediately when needed. The chatbot can respond to users queries through a knowledge base; the chatbot can fetch questions from databases; if a match is discovered, the chatbot can display a similar answer.

The complex question and answer present in database which is answered by an expert. The user can ask any question regarding healthcare without spending time visiting the doctor. Each question that is asked by the user can be compared with the knowledge base to find the related answer. The design of this website is made using HTML and CSS. The functionality of this website is made using Javascript, and the backend is made using PHP.

II. LITERATURE REVIEW

The ChatBot can make possible the conversation between humans and machines. Here, this system can have a knowledge base to identify the questions and make the decision to answer them. The knowledge of the chatbot can be stored in a database. The chatbot is implemented using pattern comparison, in which the question of the user is recognized and the pattern of the answer is stored. Here, the input is taken using the input tag, and the answers of the chatbot are given separately in response. js file in which there is a response function in which the chatbot can fetch the user's query and answer it.

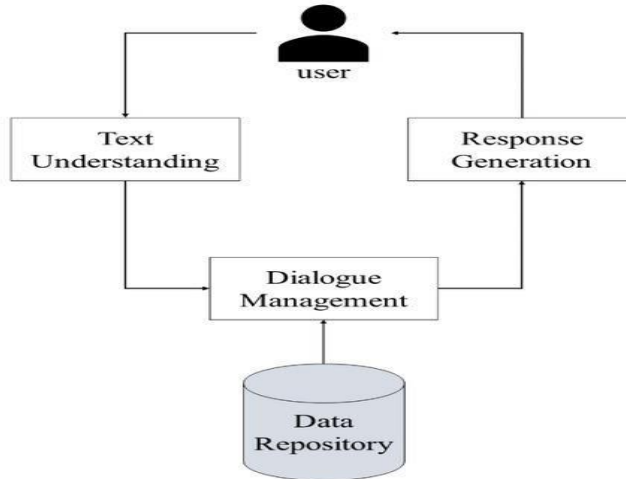
The chatbot that was developed is here for healthcare purposes in the form of a web application. The user can ask the problem in a text message, and the user gets the answer that is related to the question. This chatbot cannot understand the spelling mistakes. This chatbot was created for customer service, which can provide healthcare services.

III. PROPOSED SYSTEM

ChatBot is a virtual assistant that can have conversations with users. Chatbots can be developed by artificial intelligence using machine learning to understand natural language. The main aim of this paper is to help patients with minor health issues. When the user visits the webpage, they should first register their details, like name, email, age, etc. Once the registration process is completed, the user can be redirected to the home page, where our virtual chatbot is present. In this system, SQL is used to handle databases.

IV. SYSTEM ARCHITECTURE

The given figure is the system architecture outline of the AI Healthcare ChatBot website. The user can ask the queries in the form of text or a sentence, and that text or sentence should be understandable for the chatbot. After asking queries by the user, the chatbot can try to understand the query to generate a related response. The chatbot can fetch the query and generate a similar response through dialogue management, which is stored in the data repository.



V. RESULT AND ANALYSIS

This website works in the form of question and answer, where this page consists of a login page where the user wants to enter an email or password if they are already registered. If the user is new on this website, then they want to register their details like name, age, email, or password. After successfully registering or logging in, the user can be redirected to the home page. User details can be displayed on the home page where the chatbot is present.

VI. CONCLUSION

The ChatBot is the best AI tool for conversation. This website is developed to provide quality work for question and answering. This website provides fast solutions on users' queries about healthcare. This website is made to avoid wasting of time of patients for visiting doctors. This website is available 24hrs a day for patients.

REFERENCES

- [1]. www.google.com
- [2]. www.youtube.com
- [3]. www.chatgpt.com