

MEDBOT – An Voice Based Medical Chat Bot

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Abstract— ChatBot can be described as software that can chat with the people using artificial intelligence. Our system was used to perform perfect tasks, and quickly responding to patients, informing them, helping to find diseases and to providing good service to patients. The audio-to-audio Medical ChatBot diagnose the disease and provide features or symptoms about the disease before consulting the doctor. It helps the patients in medical related task. Here the chatbot use the algorithm of Natural Language Processing (NLP) as tool to extract the information from the user comments or statements. Here the voice input is taken from the user through the microphone. Then the input is processed with saved Database. The audio is converted to text and processed with Database and produce the answer for users question in audio Format. Hence this a complete model of Voice Medical voice interactive based Medical assistant system which helps to their user's related medical consultancies. It is control for traffic light control using video processing with IOT.

Keywords: Haar Cascade Classifier, Segmentation

I. INTRODUCTION

ChatBot is a computer based program which responds to the user with the information required. Healthcare specialists have inadequate resources and were not able to monitor personally and support patient in their day to day life. Added to this, as there is increase in number of self-service channels and digital health innovations, in this paper we explore how voice-based healthcare chatbots (VBMCB) can be designed to enormously support patients and on-site patients. Among the massive applications and products of artificial intelligence and machine learning the voice based assistance plays an important role in decision making. This system marks its existence by providing basic information as needed by the user. A chatbot is a designed program with smart communication through text and voice. This paper is purely based on audio to audio communication. Chatbot recognizes the user input through microphone and diagnose the disease are based on the symptoms given by the patients. A chatbot utilizes pattern matching of the given statements. The chatbot is one of the trending field in future which is even be used by a layman and is accessed from everywhere by anyone. Here the medical chatbot is used to predict the disease with the symptoms. Mostly chatbot uses the NLP for understand the user command and generating the corresponding responds but systems are considered for the keyword or certain pattern. Various surveys have proven that the medical chatbot has given the information and patient consulted with doctor and cured the diseases.

A. Techniques Used

1) Artificial Intelligence [AI]

Sometimes called machine intelligent, it is an intelligence reveal by machine, contrast to the natural intelligence are

shows by humans. Any device that perceives, its environment and takes action that enlarge it to successful achieving its goal. As machines, become increasingly capable task considered to require "INTELLIGENCE", are often removed by the meaning of AI. These include successfully understanding human speech. AI in healthcare is often by classification of identifying high risk patient for the population health. The breadth of application is rapidly increasing. As example, Artificial Intelligence is being applied to high cause problem of dosage. MACHINE LEARNING[ML], is an application of Artificial Intelligence that provides system can make ability to learn and take decision automatically and improve the performance from experience without help of programmers. Machine Learning can be helpful for computer programming that can access data and Images. NATURAL LANGUAGE PROCESSING(NLP): In this field which, Machines can Learning with the ability of a computer to analyze, manipulate and potentially generate human languages information retrieval and information extraction.

II. LITERATURE SURVEY

SIMON HOREMANN discuss of text based mental effectiveness of machines. Synchronous written conversations are become popular as web based interventions. This review is based on the evaluation of the synchronous web based chat technologies. Chatbot on the Artificial Intelligence markup Language [AIML] THOMAS N.T and AMIRTA VISHWA AIML and LSA is customer care service based Chatbot, used for the E-commerce websites. Their approach shows that we can adding other models to improve the ability of chatbot.

III. EXISTING SYSTEM

Chatbot help the users to obtain timely and efficient assistance or information social and relational factors about what they via as novel factors.

Here the bot is trained up with the human brain and the emotions. The bot is highly used on social media and entertainer world the bot can be performed with both text and voice type and it processed with the database and provides the result to the user.

A. Drawback

Diseases can't identify clearly based on Symptoms

IV. PROPOSED SYSTEM

Some chatbot are best medical readable books which are useful not only for medical field. They also for those who want to learn something about the health. Patients that feels included who are all interacting via chatbot with the healthcare system and that is important for users and the healthcare provider. Question and answer based chatbot are

functioning on old days in web browsers. Chatbot can make prediction via own think based on healthcare data. This system help user to submit their queries regarding their health .chattbot is make ability to give health related guidance for good living. The System get the input from the user .It search in the dataset feed into the system and gives diagnose in the voice format through the microphone.

A. Experimental Result

The user's questions received through processing the voice commands to text conversion and analyze the text to extract the meaningful information. The user input text is analyzed by the Chatbot with train database through NLP method and gives consultancy through voice audio output .Hence this is complete model is voice interactive based medical assistant system which helps to their users related medical consultancies.

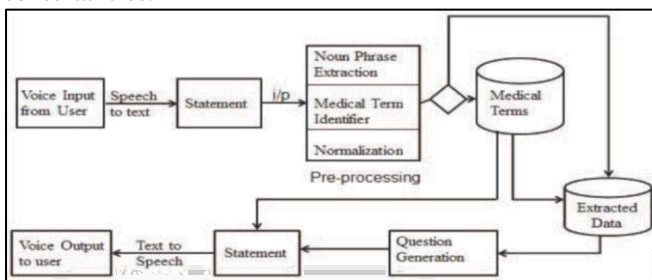


Fig. 1: Block Diagram

V. FUTURE SCOPE

Chatbot have moved away from the days Stilted, binary conversation to understanding part. For patients, chatbot are performing communication work for users and discuss the thought .It can used to maintain the mental health.

A. Treatment

While a doctor who is treating cancer a patient does not have the bandwidth to read and stay ahead of every new piece of research, a machine with AI capabilities can comb through all data and provide concentrate recommendation for doctors and patients.

VI. CONCLUSION

From the KNOWLEDGE of various reports, it is concluded that, the usage of chatbot is sophiscated and can be used by anyone who knows how to type in their own language in mobile app or desktop .The implementation of personalized medicine would successfully save many lives and create a medical awareness among the people.

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