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Channasandra, Dr. Vishnuvardhan Road, Bengaluru - 560 098
Ph:(080)28611880,28611881 URL: www.rnsit.ac.in
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Date: 18/05/2023

Course: Mini Project
Course Code: MP21CSMP67

Synopsis

PROJECT TITLE: "HealthBot - A Chatbot for Managing Simple Health Conditions"

Batch No: #				
Sl. No.	**USN**	**Name**	**E-mail id**	**Contact number**
01	1RN21CS049	Dhanush M	1rn21cs049.dhanushm@rnsit.ac.in	8296161413
02	1RN21CS056	Eshwar K	1rn21cs056.eshwark@rnsit.ac.in	9353593747

Internal Guide Details:	
Domain:	Artificial Intelligence & Machine Learning

Introduction

HealthBot is an AI-powered chatbot designed to assist users in managing common health conditions. By providing quick and accurate responses based on user queries, HealthBot enhances healthcare accessibility and supports chronic condition management. The chatbot features a symptom checker, daily health tips, medication reminders, and emergency guidance, ensuring that essential healthcare information is easily accessible to everyone.

Literature Survey

The literature survey would involve reviewing existing AI chatbots in healthcare, their functionalities, effectiveness, and limitations. It would also cover studies on natural language processing (NLP) in health applications and the impact of digital health tools on patient self-management and healthcare accessibility.

Existing System and their Limitations

Existing healthcare chatbots often have limited functionality, focusing on either symptom checking or medication reminders but rarely integrating multiple features. They may lack advanced NLP capabilities, resulting in less personalized and less accurate responses. Additionally, many existing systems do not support integration with wearable devices or offer multilingual support, limiting their accessibility and usefulness.

Problem Statement

Develop an AI-powered chatbot that provides comprehensive healthcare support by integrating symptom checking, daily health tips, medication reminders, and emergency guidance. The system should leverage advanced NLP to offer personalized advice and support multiple languages to enhance accessibility.

Objectives of the Project Work

- To develop an AI chatbot that provides quick and accurate responses for managing common health conditions.
- To integrate features such as symptom checking, daily health tips, medication reminders, and emergency guidance into a single platform.

- To utilize advanced NLP for understanding and processing user inputs.
- To support multilingual capabilities and integration with wearable devices

Innovativeness & Relevance of the Project

HealthBot stands out due to its comprehensive approach to managing health conditions, leveraging advanced NLP to provide personalized advice. Its ability to integrate with wearable devices and support for multiple languages significantly increases its accessibility and relevance in diverse healthcare settings. This project aims to reduce the burden on medical facilities by promoting self-care and chronic condition management.

Expected Outcome

HealthBot is expected to revolutionize personal healthcare by making it more efficient, accessible, and user-friendly. It will empower individuals to make informed health decisions, encourage proactive health management, and reduce the need for immediate medical consultations for minor issues