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AI Health Care Chat Box using Python

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Abstract: Artificial Intelligence (AI) is revolutionizing healthcare by enhancing patient care, reducing diagnosis time, and improving medical assistance. This research paper presents the development of an AI-powered healthcare chatbox using Python, designed to assist patients by providing medical advice, symptom analysis, and health recommendations. The system leverages Natural Language Processing (NLP) and Machine Learning (ML) techniques to understand user queries and provide relevant responses based on a trained medical knowledge base.

The chatbot integrates APIs for real-time medical information retrieval and employs deep learning models to enhance accuracy in symptom detection. It is built using Python libraries such as NLTK, TensorFlow, and Flask, ensuring efficient processing and deployment. The proposed system aims to bridge the gap between patients and healthcare professionals, offering 24/7 accessibility, cost-effective consultations, and preliminary medical guidance. While not a substitute for professional medical advice, the AI healthcare chatbot serves as an initial point of contact, promoting early diagnosis and better healthcare management.

Keywords: Artificial Intelligence (AI),Healthcare Chatbot, Natural Language Processing (NLP),Machine Learning (ML),Symptom Analysis, Medical Diagnosis, Python, Deep Learning, Conversational AI, Telemedicine



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