AI Based for Preliminary Diagnosis of Health Care

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Abstract

The abstract of this project is to develop an Android application that utilizes AI technology to provide users with accurate and efficient question and answer (QnA) capabilities. The application aims to enhance the user experience by leveraging natural language processing and language processing and machine learning algorithms.

The primary goal of the application is to understand and interpret user queries in natural language. By analyzing the input, the application will identify the intent and extract relevant information to generate appropriate responses. This process involves linguistic and semantic analysis techniques to ensure accurate understanding of user questions.

To achieve this, the application will utilize a knowledge base or dataset containing a wide range of information related to the subject matter. The machine learning algorithms will continuously learn and improve from user interactions, enhancing the accuracy and relevance of the answers provided.

The key features of the application include a user-friendly interface that allows users to input their questions naturally. The application will process the queries, apply language analysis techniques, and retrieve the most suitable answers from the knowledge base.

Additionally, the application will incorporate features such as autocomplete suggestions, spell-checking, and error correction to assist users in formulating their queries accurately.

Overall , the AI-based QnA android application aims to provide users with a seamless and efficient way to obtain accurate information and answers to their questions. By leveraging AI technology, it offers an intelligent solution for users seeking quick and reliable information on various topics.

1. Introduction

This is health tracker software using artificial technology. It can provide various outputs based on user input. It can detect symptoms and diseases by analyzing the user's questions and answers, and provide relevant information or suggestion. Additionally, it can store and manage personal details of users securely, ensuring privacy and data protection. The output can include personalized health recommendations. Potential diagnoses, and even reminders for medication or suggestions.

2. Related Work

Experts and business leaders have repeatedly emphasized the signification of healthcare and well-being for employees in numerous industries during the past century. To assist students, cope with stress while studying, schools and institutes are collaborating with app developers. Revenues from the healthcare business in industrialized nations surpass 10% of GDP. Worldwide medical care spending is supposed to reach $9.7 trillion by 2022. Also, overall cell phone reception is expanding. There are over 5.2 billion cell phones being used around the world, with Android ruling the market. Further developed ways of life and a speedy way of life have added to an expansion in virtual treatment interest on the lookout. Improved lifestyles and a fast-paced lifestyle have contributed to an increase in virtual treatment demand in the market. Furthermore, mobile phones have become indispensable tools for many professionals, allowing them to work more efficiently.

3. Proposed System:

Tracking refers to the continuous collection of data from various sources, such as sensors, wearables, or user input. This data can include information like heart rate, sleep patterns, exercise activity, and other relevant health matrics. The system should be designed to accurately capture and store this data in a secure and organized manner. Monitoring involves analyzing the collected data to provide meaningful feedback and insights to the user. This can include identifying patterns, detecting anomalies, and generating personalized recommendations or alerts. The system should be able to process and interpret the data using AI algorithm or other techniques to provide valuable information to the user.

4. Methodology:

Methodology refers to the systematic approach or set of principles and procedures used to conduct research, implement projects, or solve problems. It outlines the steps, techniques, and tools employed to achieve specific objectives, ensuring a structured and organized process. A welldefined methodology provides a framework for planning, executing, and evaluating activities, contributing to the reliability and validity of outcomes in various fields such as research, software development, or project management.

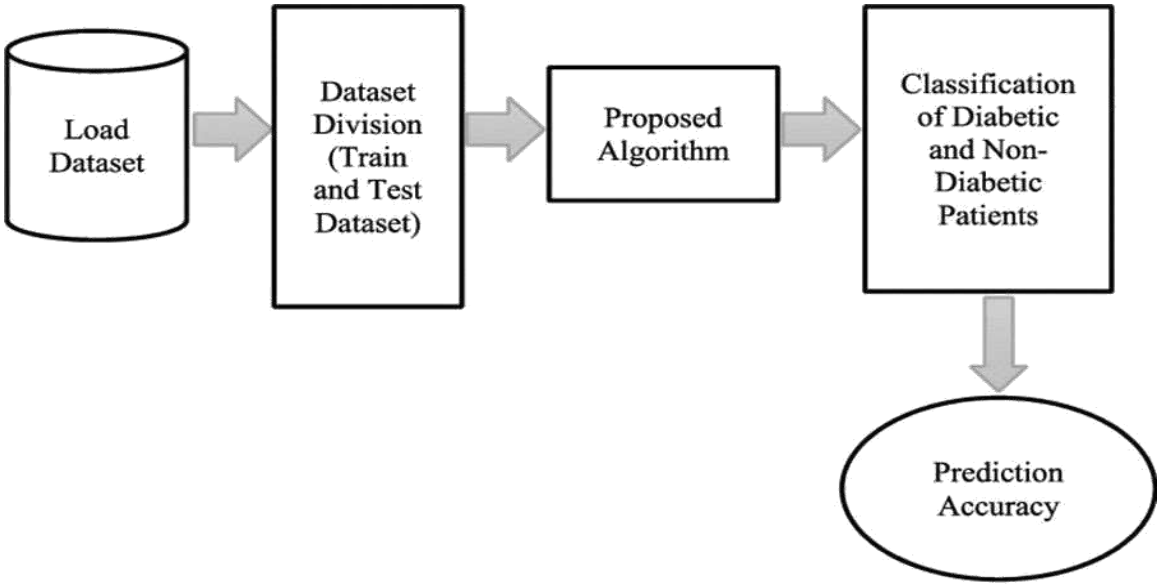

Fig 4.1. General flow chat for diabetics diagnosis

5. Result:

- The application utilized artificial intelligence to detect symptoms and disease through user questions and answer.
- Users will be promoted with such a question related to their health or symptoms.
- The AI algorithm within the application analyse user responses and compare them to symptoms and disease.
- It can detect symptoms and disease by analyzing the user's question and answer and provide relevant information or suggestion .
- It can store and manage personal detail of users securely ensuring privacy and data protection.

- Tracks various health metrics quickly and easily including temperature, blood pressure, cough severity etc
- In case of serious injury this application will act like a health card.

In case of emergency this app will become a life savers because this application can message to your doctor and your emergency contacts

6. Conclusion:

The diabetes prediction project represents a significant stride towards advancing healthcare strategies, particularly in the realm of diabetes management. Through a comprehensive exploration of predictive models, machine AI algorithms, and data analytics, the research aimed to enhance the precision and timeliness of diabetes detection. The problem statement underscored the urgency of addressing the rising challenge of diabetes prevalence, emphasizing the need for a more accurate and proactive approach to interventions.