# **Survey On Smart Health Consulting System**

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### **Abstract**

Background: The advent of computer and internet has made it possible for millions to access proper medical services and are administer correct treatment procedures. Today, several algorithm, models and technologies are put in place to ensure accurate and precise diagnosis on patient which in turns has reduce the rate of mortality in the country and world at large. There are many systems which provides the facility of consultation on disease to patient by suggesting best hospital clinic nearby the patient on that particular disease. These systems are called smart health consulting system. We are conducting this survey to find out existing systems on smart health consultancy to find out what this software's are lacking, so that we can implement it on our software to make it batter.

Materials and Methods: In this study we visit 6 sites of smart health consulting system. To analyse its working flow, data collection method and features. We also compare 5 papers on the smart health consultancy. To know which one have quality of all remaining software.

**Results**: Many of this software are platform dependent which means some are desktop application and some are android applications. Some of this software's has facility of disease predication and also some are in the way of IOT integration. In this study we realize that these systems are not storing patient history of disease and their medicine given at that time and their negative impact on patient. This system also not capable of giving information of available facilities in hospitals.

**Conclusion:** There are many smart health constancy systems are existing but they need lots of improvement to give accurate consultation from home.

## I. Introduction

In The pandemic like Covid-19 there is lack of facility for treatment or some hospitals already have occupied with patients. In the pandemic family have to struggle to find hospital with facility which they needed they have to call each hospital one by one or go to them just for checking if they can admit their family members. Also, such pandemic people getting panicked with small disease like fever and cold. For this situation we through over web app we are try to connect with hospitals and doctors to online consultant facility check-up so we can reach to the help on time without any struggle. This project mainly focuses on the development of a system, or we could say an immediate medical provision that would incorporate the symptoms and other medical data collected from the patient and store them into a Smart health dataset. This dataset would then be analysed using the Naïve Bayesian machine learning algorithm to deliver results with maximum accuracy. GPS tracking will be used to suggest nearest doctor or specialist if the patient needs referral

## **II. Material And Methods**

In this study we visit 6 applications of smart health consulting system. To analyse its working flow, data collection method and features. We also compare 5 papers on the smart health consultancy. To know which one have quality of all remaining software.

We Make a table of comparison of features provided by these applications. To see and study actual difference

#### III.LITERATURE SURVEY

Healthcare is one of the basic needs to everyone. However, the physicians are not genuine in terms of care and money with each patient. One more problem associated with the healthcare system is the fewer amounts of medical facilities to track the patient's history to provide the effective treatment. Therefore, it is necessary to optimise the healthcare system to make it more efficient. This paper highlights the literature review on different work done in healthcare area using Internet and applications.

Paper [1], It is android application of a smart medical assistant system is designed where doctors can record all prescriptions, treatment, or medical details of the patient on software instead of writing on a paper. All these records are stored in the central cloud and made visible to doctors as well as patients. Each patient has assigned a unique authentication card for maintaining the privacy of their medical history account. Doctors can access and update a patient's medical history anytime and anywhere by logging into their account through a smartcard swipe. The system can avoid overdue to treatment decisions. Likewise, the system helps to keep transparency about medicines and treatment.

Paper [2], Smart Health Care Prediction using Data Mining is a new powerful technology which is of high interest in computer world. It is a sub field of computer science that uses already existing data in different database to transform it to new researches and result. The actual task is to extract data by automatic or semi-automatic means. The different parameters included in data mining include clustering, forecasting, path analysis and predictive analysis. With the growing researching the field of health informatics a lot of data is being produced. The analysis of such a large amount of data is very hard and requires excessive knowledge. Smart health care applies data mining techniques for health diagnosis. Data mining refers to extracting meaning full information from the different huge amount of dataset. It is the process of determining the unseen finding pattern and knowledge from the massive amount of data set.

## Paper [3], Smart Healthcare Monitoring System Using Wireless Body Area Network

Wearable sensors have gained significant attention due to tremendous promise for tracking of individual health and fitness 24hrs. Earlier the interaction between doctors and patients were through regular visits or text messages. Due to advent in Internet of Things continuous remote monitoring can be done without getting hospitalized is even made possible. There are countries which lacks skilled healthcare staff. The emergence of high technology devices has made our lives more convenient. People with physical disabilities such as paralysis solely depends on others for their movements. Smart wheelchair provides them remote health services and their health is monitored at regular interval which enhance their independence as they don't need to physically visit their doctor. They can even contact the doctor in case of emergency.

Paper [4], Prediction of human health using Machine Learning and Big Data. Description: Processing input and validating data with the help of prediction algorithm. Describes the use of Back propagation algorithm to reduce the error in the proposed system. Idea of Extraction: Predicting valid/invalid input and function of system.

Paper [5], Electronic health record systems In this system doctors and patient can enter the records and perform simple operations like search, delete and insert there data which keeps getting updated

## **IV Conclusion**

There are many smart health constancy systems are existing but they need lots of improvement to give accurate consultation from home. Some system provides facility of storing patient medical data but lacks disease predication and common features like online consultancy with doctor. Some provide advanced future of monitorization which is really expensive So we need to create such application which have mixture of all this facility with reliable and easy interface without any platform dependency.

## V Reference

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