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Human Symptoms Guidance and Tracking System

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ABSTRACT: Human Symptoms Tracking and Guidance System processes, user's symptoms to check for various illnesses that could be associated with it. It provides general tips for health. It also help to view different types of disease and conditions the online intelligent Smart Health prediction web based application that will facilitate the patient to get instant guidance on their health issues Due to advancement in technology the growth and development of nation is faster and also technology has provided comfort to human being this has made life simple but it is true that every changes made by human being against the nature will have some effect on life so here also it has majorly effected the life of human being and leading to increase in diseases and various heath related problem. This system will provide proper guidance when the user specifies the symptoms of his/her illness. E health care practice Human Symptoms Tracking and Guidance System supported by electronic processes and communication Human Symptoms Tracking and Guidance System is helpful for users to update their medical knowledge. All details like medical, patient and doctor information's are stored in database it is useful for the doctors and patients to verify at anytime.

KEYWORDS: Human Symptoms Tracking, Guidance System, Medical Knowledge. .

I. INTRODUCTION

Human Symptoms Guidance and Tracking System to advancement in technology the growth and development of nation is faster and also technology has provided comfort to human being this has made life simple but it is true that every changes made by human being against the nature will have some effect on life so here also it has majorly effected the life of human being and leading to increase in diseases and various heath related problem. Due to all these problems it has become necessary that people should have a regular health checkup so that they are kept updated about their health and can be save from any critical diseases which may occur to them. Due to the workload and the negligence person do not get time to visit the doctor and cannot be up-to-date regarding his/her health. Also many times it happens that person will have time but their family doctor is not available due to some or the other work. so in order to fulfill this gap and provide communication among patient and doctor even if they are located at two different places even far away from each other but they can connect and patient can get consultancy from Doctor. Nowadays the major problem in any developing country is health of the people because there is mainly working class crowd in the cities who are so busy with their work that they avoid going to Doctor even if their health condition is not good, if even lead to another problem, so in order to provide proper information about their heal that any point of time and at any place a complete independent health care system should be develop by using which they can consult and communicate with their doctor and can upload information about their health so that the doctor can view and provide possible remedy. so in order to provide people with better experience of getting treatment from their doctor at any time from any place a mobile application is needed using which they can get medical advice from their doctors and in emergency only they are required to visit hospital will help in saving lots of travelling time. The hospitals, small clinics, etc can provide their patients with a application made specifically for their regular patients which can use the exclusive service of the application by paying a sum of money charged by the hospitals, clinics, etc. The above system is designed to provide a system which is helpful for creating a health management system for patients belonging to a particular hospitals, clinic, etc so that they can provide optimum services to their patient and as well as manage them well. It is nothing but a



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health care management system where patient or user of the system will be able to keep track of his/her health by regularly concerning to a doctor which will be a general physician which can help to identify general health problems and help provide remedies for it to the patients via texting and the patient if very far can consult him and send his test reports like blood report, etc. The patient application has a feature which is available for every patient for diagnosis of common diseases There is a set of symptoms which can be taken as input and a set of diseases which can be identified as it is not possible to create a system say to diagnose cancer, Aids, etc these diseases need proper checkups and tests The patient all has an alert system which could be used by patients so that they could be reminded of taking a medicine at the time specified by them. The receptionist is provided which will manage and add patients as and when they come for registration.

II. RELATED WORK

Decision Tree

Algorithms embody CART (Classification and Regression Tree), ID3 (Iterative Dichotomized 3) and C4.5[8]. These algorithms disagree in choice of splits, once to prevent a node from cacophonous, and assignment of sophistication to a non-split node.

Association Rule:

The central task of association rule mining is to search out sets of binary variables that co-occur along oftentimes in an exceedingly dealings database[8], whereas the goal of feature choice downside is to spot teams of that ar powerfully correlative with one another with a selected target variable. Association rule has the many algorithms like: A priori, CDA, DDA, interest live etc. a wise shirt has been designed in [10]. The shirt will live cardiogram (ECG) and acceleration signals for continuous and real time health watching of a patient. The shirt in the main consists of sensors and semi conductive materials to induce the body signal. The measured body signals are transmitted to a base station and server laptop via IEEE 802.15.4 network. The wearable devices consume low power and that they are sufficiently small to suit into a shirt. to cut back the noise related to the graph signal AN reconciling filtering methodology has conjointly been planned during this work. within the home of the long run, some devices can contribute physiological info concerning the patient (e.g., heart rate, blood pressure), whereas alternative devices in and round the home can contribute info concerning the patient's surroundings (e.g., humidity, temperature, monoxide level). These physiological and environmental knowledge are collated to assess the patient's state of health and to spot external factors which will influence that state. In some cases, teams of devices can have enough collective awareness to perform autonomously supported sensing element knowledge (e.g., A monoxide detector might note levels on top of a security threshold, initiating a protocol to open the windows, sound AN alarm, and activate important signs sensors for people within the house.

III. EXISTING SYSTEM

In existing system all the stock information are maintained manually. It is difficult task for producing the clear picture about the stock information immediately.

- Handling records of medical details in manual is very difficult
- Data can be loosed
- Patients need to store their records and to maintain their records
- Users doesn't know about details of their diseases
- Users they want to wait for doctors to check their body condition
- Patients they doesn't know about first aid
- They doesn't know about medical knowledge



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IV. PROPOSED SYSTEM

- Systemized details are easy to handle
- Users can access needed details quickly and easily
- They can also learn how to prevent from diseases
- Data cannot be loosed and it is maintained separately
- Users can save their time.

V. IMPLEMENTATION

SYMPTOMS CHECKER

In E-health care system where patient or user of the system will be able to keep track of his/her health by regularly concerning to a doctor which will be a general physician which can help to identify general health problems and help provide remedies for it to the patients. Ever user can create their account by entering details such as name, age, height, weight, address, phone number etc., They can search any symptoms the system will predict the related disease using K-means algorithm.

DISEASE AND CONDITION

When the system predicts the disease the user can view the details about the disease as follow:

- Causes
- Symptoms
- Types
- Possible causes

BLOOD LINE

Blood line is used for blood donors who is willing to donate their bloods can register in it. And user can also search for donors by selecting the blood group, list of donor with their details can be viewed.

HEALTH CALCULATOR

On-line mini Health examination - a comprehensive utility that is a tenet to assist users overall health standing as well as your BMI, body shape, force per unit area, glucose, fitness and life at the side of free heal risk assessment.

LITERATURE SURVEY

DATA MINING

Data mining has many applications in the fields of telecommunication industry, financial data analysis biological data analysis and much more. With the growing research in 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. E-healthcare applies data mining and telecommunication techniques for health diagnosis.

E-HEALTH CARE SYSTEMS

Today's world e-health is employed to make patient and physicians blogs and observance information like sensors hooked up to patient are exercised to help higher designation of the patient and for a continuous check-up of sensitive patients. From [5] UN agency outlined E-health as, the employment of knowledge and communication technologies (ICT) for health to, for instance, treat patients, pursue analysis, educate students, track diseases and monitor public health. advancement of technology a lot of and a lot of good systems are being designed with higher data processing technologies to provide the foremost correct results that might be related to the unwellness. If the system once correct analysis isn't able to give the correct results it notifies it to the patient the kind of unwellness it feels that the user is related to. If the symptoms don't specifically match any unwellness it displays the result the user symptoms may be connected with. The system have info concerning the doctors phone number[9], address in



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conjunction with feedback and administrator board for system processes. good health care system is accustomed monitor patients. Pd is progressive disorder. The patients totally different parameters like voice, images, movements and daily activities are monitored and systems are generated victimization measuring and pattern recognition. E-health has shown vital improvement and advancement within the field of drugs. Health care may be a information made field. With increase in analysis a lot of and a lot of information is provided which might eventually increase the demand of information mining during this field.

HEALTHCARE APPLICATIONS IN MINING

Tendency for data processing application in health care nowadays is nice, as a result of health care sector is made with data, and data processing is turning into a necessity. data on day to day. Use of {knowledge} technologies allows[10] of processes for extraction of information that facilitate to induce fascinating knowledge and regularities, which suggests the elimination of manual tasks and easier extraction of information directly from electronic records, transferring onto secure electronic system of medical records which can save lives and scale back the value of the health care services, furthermore and early discovery of contagious diseases with the advanced assortment of information. data processing will modify health care organizations to predict trends within the patient conditions and their behaviors, that is accomplished by information analysis from totally different views and discovering connections and relations from apparently unrelated data. data from health care organizations area unit voluminous and heterogeneous. they have to be collected and keep within the organized forms, and their integration permits forming of hospital data system. health care data processing provides myriad potentialities for hidden pattern investigation from these information sets. These patterns is employed by physicians to work out diagnoses, prognoses and coverings for patients in health care organizations. there's huge potential for data processing applications in health care. Generally, these is sorted because the analysis of treatment effectiveness; management of healthcare; client relationship management; and detection and abuse. additional specialized medical data processing, like prognostic medication and analysis of polymer micro-arrays, lies outside the scope of this paper. different data processing applications associated with treatments embrace associating the assorted side-effects of treatment.

VI. CONCLUSION

People with experience a broad range of symptoms during treatment, yet they do not always see the benefits of real-time tracking. In the wild, participants rarely invested time in the tracking process, and those who did typically made do with fragmented and sporadic self-devised systems. All but one participant were not aware of the benefits of self-tracking prior to participating in the study using Health Weaver. With Health Weaver, participants augmented their memories, supported communication with clinicians, and derived psychosocial comfort from tracking. We found that Health Weaver motivated our participants sufficiently to take the effort to track symptoms due to its customizable metrics and opportunities it provided patients for reflection with and without clinicians. Further investigation into the cancer diagnoses, stages, and treatments that can best be served by real-time tracking and how to ensure that well-designed tools are accessible and used will help patients realize their full benefit during treatment. When carefully designed, such tools could help patients to better manage their treatment, communicate with their providers, and maintain control over their care and their lives.

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