

# Automatic Medical Disease Treatment System using Data Mining

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**Abstract**— In our project the system is identifying consistent information in the medical field places as building blocks of a healthcare system that is updated with all the latest discoveries. Using tools such as NLP, ML techniques. This research, mainly focus on the type of diseases and treatment information by entering the symptoms and the relation present between these two entities. The main objective of this research is to categorize name of the disease with the symptoms specified and extract it from the database and get the relation that exists between the Disease-Treatment and classify the information into whether it is curable, preventable and any side effect to the user.

**Key words:** Disease Symptoms, Health Care, Medical Domain, NLP, ML

## I. INTRODUCTION

People care more about their health and desire to be, nowadays more than ever, in charge of their healthiness and healthcare. Life is excited than ever been, the medicine that we are using today is an EBM in which medical experts not just based on years of their practice but also on the latest invasions as well. Tools that can help us manage and better keep track of our health such as Google Health and Microsoft Health Vault are reasons and facts that make people more powerful when it comes to healthcare knowledge and management.

## II. RELATED WORK

The proposed system is identifying the consistently good in quality or performance in the medical domain and becomes important in the healthcare system which is up-to-date with the latest discoverers.

This application provides facility for the user to know the disease, precautions and type whether it is curable or not by entering and searching the symptoms which is in the database and also provides facility to know the Body Mass Index (BMI) by entering the weight(kg) and height(cm) of adult men and women.

Firstly the admin updates the database 24X7 like disease name, symptoms, description, precautions and effect type whether it is curable, preventable, any sideeffects. The user has to get registered successfully then he or she can login in to the application by entering username and password which is same as what he or she entered while registering. The main advantage of this application is user can take precautions for the disease he is suffering by searching the symptom.

### A. Modules

- Admin
- User

#### Modules Description

##### 1) Administrator:

In this module admin will monitor whole medicure system which includes view user details,view most disease searches. He can also add disease information with attributes

like name, symptoms, precautions, type etc. More over admin can view medicure system log statistics such as total users, total diseases registered.

##### 2) User:

In this module, user can register in to system to acces it. He can enter symptoms with keywords and further search disease information with respective symptoms and also exercise to prevent disease and effect type such as curable, prevent, side effect etc. User can also calculate BMI to check body balance

## III. METHODOLOGY

The model that we followed is the Water Fall Model, This model underlines the needed for discipline, planning and management in the process of software development. It is a simple tool that provides the software engineers with clarity of what they need to do. First all the feasibility study should be done. Once that part is done then requirement analysis and project planning begins. In the existing system if we want to make the modification and addition of new modules , then analysis of the present system used as basic model.

The designing part starts after the completion of the requirement analysis phase is done and the coding begins after the design part completes. Once the programming of the code completed, then testing part will be done. In the waterfall model the sequence of phases represented and that to be performed in software development process are: -

- Requirement Analysis
- Project Planning
- System design
- Detail design
- Coding
- Unit testing
- System integration & testing

Here it has certain limitations since it is linear and the linear ordering of these phases is critical. In waterfall model the output of one phase flows as input to the next one.

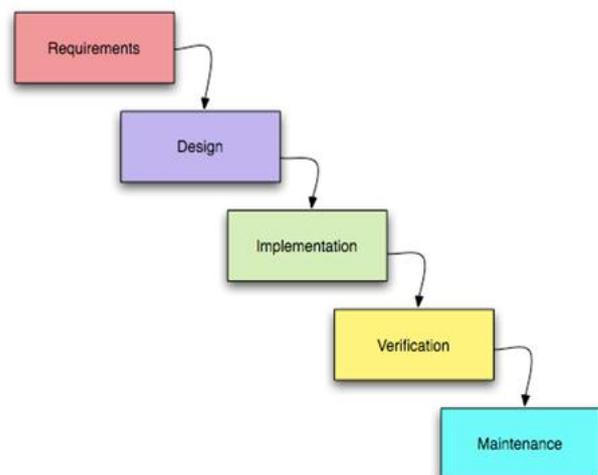


Fig. 1: Water Fall Model

Waterfall Model was being chosen because all the requirements were known before and the main objective of our software development process is the computerization and automation of an already exists working system.

#### IV. CONCLUSION

The conclusions of our study suggest that domain specific knowledge improves the results. Probabilistic models are stable and reliable for responsibilities performed on short texts in the medical field. The illustration techniques influence the results of the ML algorithms, but more revealing representations are the ones that constantly obtain the best results. The source data is from the web and identifying then classifying the data on the web is a challenge but bringing valuable information in future it has the capability in framework model.

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