**Final Year Project (2014-15)**

**BIT MESRA**

**Title: Summarization of Medical blogs using NLP.**

**Team:**

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**Objective/Aim:**

Online doctor is a term that emerged during 2000s, used by both the media academics, to describe a generation of physicians and health practitioners who deliver healthcare, including drug prescription, over the internet.

The patients describe their problem in the form of a paragraph or a detailed passage on the website. Online doctors go through these descriptions and provide a suitable solution.

This project focuses on summarizing the results of a blog written on the online medical websites in a few words, to detect the possible disease or a set of possible diseases.

**Technical Details:**

A database of the diseases and its related symptoms is created.

The description provided by the user is cleaned.

The root words are derived from the cleaned text.

The symptoms are found from the information derived.

The probable diseases for the symptoms obtained in the previous step are found.

**Innovativeness and Usefulness:**

Most of the problems associated with online doctoring are a result of the descriptions given by the patients. Some of the problems are:

* The doctors are usually busy attending to their offline clients and cannot spend much time reading the lengthy descriptions.
* The patient describing his/her problem may not be proficient with the language in which they are posting the description and hence there may be many errors. The doctors, being busy, may not be able to spend much time deciphering or correcting the mistakes.
* Many a times, a doctor ends up reading the complete description and then realizes that the disease the patient is describing is not of his genre which results in unnecessary usage of his/her time.

The purpose of the project is to summarize the results of a written blog on the online medical websites in a few words, to detect the possible disease or a set of possible diseases.

This will lead to following advantages:

* A quicker reply to the patient.
* A doctor’s time spent on reading the whole description is reduced.
* Doctors won’t refrain from replying in case of large sized written blogs.
* A doctor of a specific field doesn’t end up spending his precious time on reading descriptions of problems of another genre.

Goal is to make a full fledged system for doctors to get a quick review of the problem description given by the patients on various online medical sites.

**Current Status of Development:**

* The input given by the patient gets cleaned that is free of errors.
* The root word of a word in the description is found out.
* All the symptoms are extracted from the input.

**Market Potential and Competitive Advantage:**

Health advice is now the second-most popular topic that people search for on the internet. With the advent of broadband and videoconferencing, many individuals have turned to online doctors to receive online consultations and purchase prescription drugs.

Advantages of Online Doctoring –

* Cost savings and convenient.
* Accessibility and improved privacy and communication.
* Patients can consult licensed physicians online – from anywhere, at any moment.

It allows doctors to give immediate online health tips and advice in rural areas through the internet broadband and videoconferencing system.