Doctor Recommendation System

Through our project, we are implementing a web based doctor Recommendation and appointment booking system.

Based on the symptoms selected by the user our model with the help of machine learning will recommend some doctors list and the possible disease. Then the user can book its appointment at a particular slot. After that both the user and the particular doctor will get the information about the appointment.

This will ease the process of knowing the disease based on the symptoms and searching the doctor to its appointment booking as well.

Features

1. User friendly user interface to make the process easy and smooth.
2. Symptoms list from where symptoms are to be selected
3. ML model to predict the disease and corresponding doctor list.
4. Appointment booking page for that doctor.
5. Profile page for each user.
6. Generation of appointment slips and also periodic reminders to doctor and patient.

The model used in this system

= Incremental model

The incremental model is a process of software development where requirements are broken down into multiple standalone modules of the software development cycle. Incremental development is done in steps from analysis design, implementation, testing/verification, and maintenance.

Each iteration passes through the requirements, design and development, testing phases, and implementation. And each subsequent release of the system adds function to the previous release until all designed functionality has been implemented.

Increment #1: User interface having user Authorization

Increment #2: Integration of machine learning model with the web app and display of doctors list

Increment #3: Appointment booking system added with the doctors predicted in the previous step.

Increment #4: Generation of appointment slip and emailing that to patient and doctor.

Increment #1

| Task name | Value(v) | Cost (c ) | Ratio | Rank |
| --- | --- | --- | --- | --- |
| Login page | 10 | 2 |  |  |
| Header | 8 | 1 |  |  |
| Testimonials | 5 | 6 |  |  |
| Covid Related Notification | 3 | 4 |  |  |
| Important Links and contacts | 5 | 3 |  |  |

Increment #2

Increment #3

| Task Name | Value(v) | Cost (c ) | Ratio | Rank |
| --- | --- | --- | --- | --- |
| Appointment Form | 10 | 2 |  |  |
| Slot checking | 8 | 4 |  |  |
| Slot confirm | 3 | 1 |  |  |
| Payment Gateway | 8 | 7 |  |  |