

Problem Statement

Track: Health

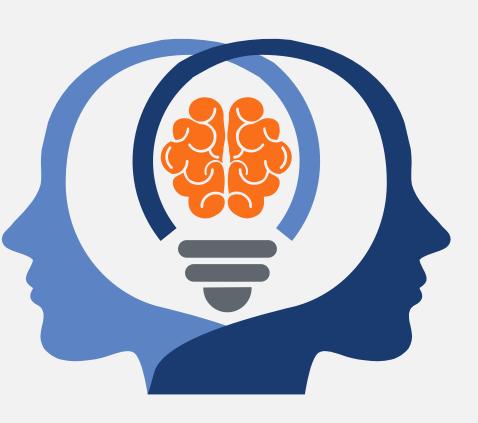
Statement: The increase in patients has led to a decrease in the relative number of doctors per patient which results in a vicious cycle where ignored or delayed diagnostics of an ailment makes the patient more dependent of doctor's check-up. Some also cannot afford a doctor.





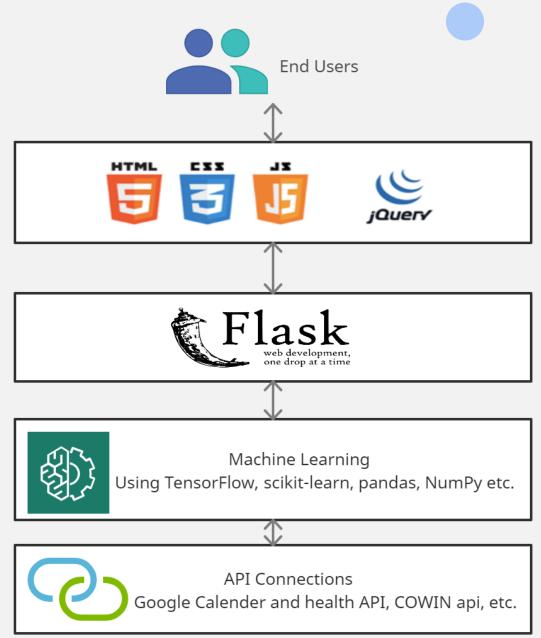
Idea

We aim to provide a platform to an individual to minimize his/her unnecessary interactions with the doctor. We intend to make this platform such that it understands the ailment of the patient and based on the severity recommend whether or not he/she needs to see a doctor. Further, we will provide disease detection for with the help of Machine Learning in order to increase the efficiency of diagnostic process. Further we also provide sections to improve the well-being of an individual.





Idea





Introduction

ashboarc

The dashboard shows the vital information in a summarized manner. The google calendar integrated lets you sync all your appointments and prescriptions directly Further in there the upcoming events that might be organized by a hospital and we allow to accepting these invitations.

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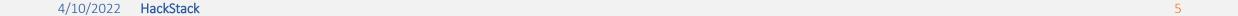
Saves hours of mind numbing diagnosis of diseases. Uses ML models along with Computer Vision to predict the severity of the condition.

Well Being

Allows the user to analyse the problems/symptoms of any pain or problem he/she is facing and further recommends the need to visit a doctor. Includes sections to improve overall wellbeing.

Health

Takes the role of a dietician, Analysis of user's health habits and nutrition suggestion to improve them



Dashboard

Quickly bringing the user up to speed regard what's about to happen



APIS IMPORTS

Saarthi has been designed keeping in that most of its features should be integrable with APIs from other applications

Saarthi dashboard has a working implementation of **Google Calendar API** that lets one view their entire calendar as well as add events.

Calendar View

The google calendar integrated lets you sync all your appointments and prescriptions directly

Event Manager

Get a list of all event (hospital or community) that you can participate in, on accepting add the invitation directly to your calendar

Diagnosis

Images of Affected Part

Includes X-rays of Lungs and images of teeth etc

Machine Learning

Keras Models predict the severity of the condition.

Machine

Data

Predictions

Obtain Predictions like Cavity, Staining areas in teeth, lung pneumonia condition etc.

Computer Vision

After some computations on the image of the affected part the image is categories whether it has issues like cavity, pneumonia or not.

Suggestions

Based on the prediction we suggest the need to go to the doctor and some home remedies

Analysis & Suggestions

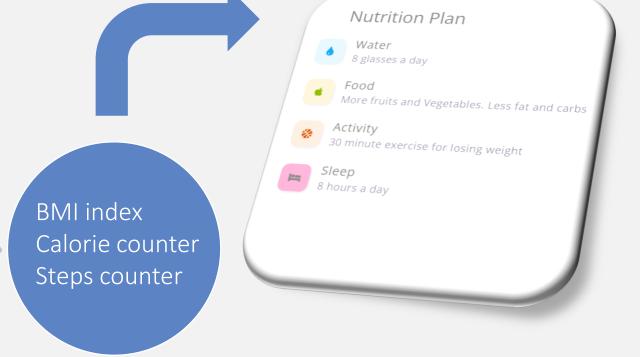
Obtain Analysis of the images of the affected parts and provide suggestions for further steps which need to be taken.

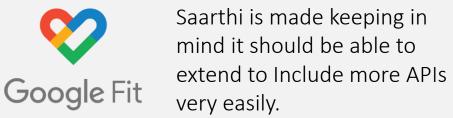
4/10/2022 HackStack further steps which need to be taken.

Health

Your Google Fit account Google Rest API Calories Weight

A Nutrition Plan created just for you





Well-Being



Body Pain Helper

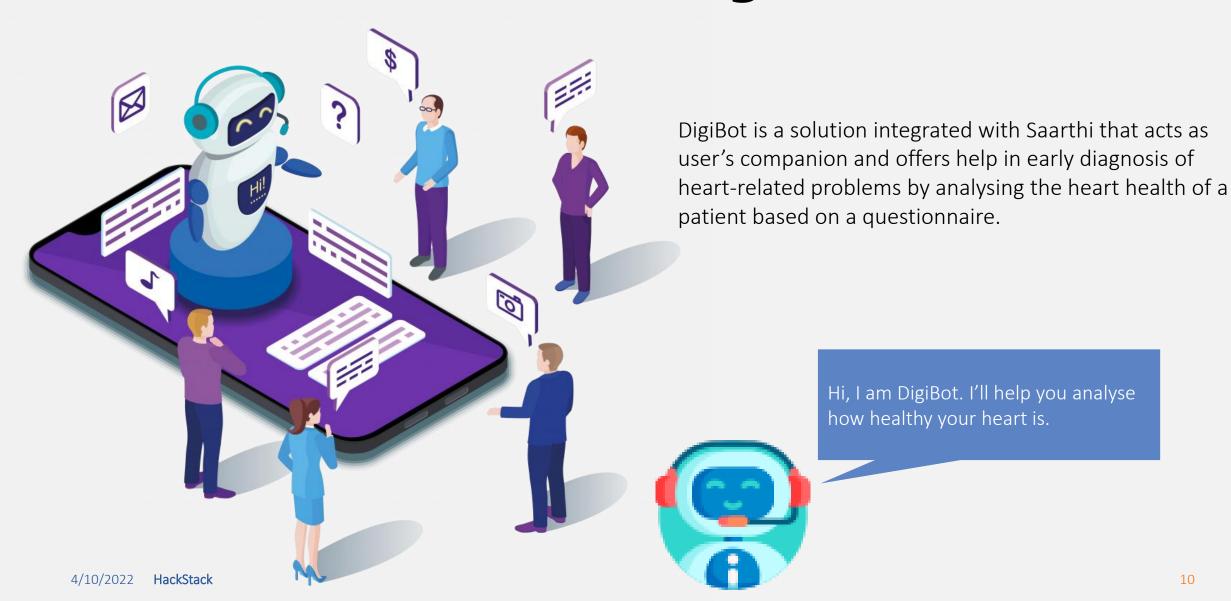
We allow the user to choose from a body diagram where they are feeling pain and give suggestions for relief. Further it informs you when it is necessary to consult a doctor for such a pain.



Physical Therapy

You can choose several body parts and get a routine for physical therapy involving only those specific muscles

Your own Digi-Bot



Conclusion

The only requirement for adapting the project to use is to replace all fictional data with actual data and after that you are good to go...

The Mecha Matrix

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