



Rocofit

By team 32_bits

Github link of the project: <https://github.com/abhi1998das/optum2>

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Excellence.
It's a start.



Problems that we solve

- 1) Track Daily food habits and health of a person and calculate the health score of a person
- 2) Higher health score means the person is leading a healthy life, so insurance company can check the health score of a person to give them discount on health plans similarly for unhealthy person insurance company can increase price for their health plans.
- 3) In reverse every person would want to keep a good health score to get cheap deals which will both help them get cheaper health deals and stay healthy as well
- 4) The app also shows nearby specialist doctors. As well as narrows down possible ailments from the symptoms given by the patients and his/her previous data. And based on ailments gives suggestion on possible care plans

Details about Doctors and Insurance providers

- We have made a dashboard :
- The user can search about doctors, other medical professionals and Insurance providers
- Get details about them and schedule an appointment.
- Search is allowed on basis of speciality, location, gender etc.
- We have also made a page where we can view the Insurance providers data and view and compare their coverage history and Quality of life score of its patients.

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Realtime vitals monitor

- We are tracking heart rate, steps and blood pressure of the user.
- We will be also running an realtime unsupervised anomaly detection on the user vitals.
- The anomaly detection algorithm we are planning to use is Extended Isolation Forest.
- We will notify the user, and hospital if the user vitals show any anomaly

Recommendation about CarePlans and the cost Insured

- We have made some recommendations to the patients suffering from various ailments
- We also provide a brief description about the care plan and some suggestion to lead a healthy life.
- We also predict a range of cost that is likely to be reimbursed by the insurance payer.
- We also give a estimation about the total cost of an diagnosis.
- The model we used for classification is Random Forest and for the cost prediction we used stacked model containing ridge regression and SVR

Tech stack

1)React.js

2)Flask

3)My SQL

4)Python

5)Scikit learn

Team 32_bits

Campus - Jadavpur University

Arnab Kundu (leader)

Subhadeep Gupta

Avigyan Das

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