

CS5542 Big Data Analytics and Applications

Project proposal

Project Group Number: 7

Team Members:

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Project Goal and Objectives:

Motivation:

The heart rate of a person depends on age, gender, daily physical activity, mental stress and many other activities/conditions. Furthermore, there is no proper equipment that can keep a track of heart beat rate.

Significance/Uniqueness:

We intend to do a system that can collect the person's daily heart rate activity, store it in a database, analyze the heart rate and the activity the person is performing. Moreover, the application can analyze the data and recommend mental or physical activities to be performed by the user to keep the heart rate optimal. It can also suggest the timings of the abnormal heart rate. All these would give a clear idea of the medical condition of the user and the better usage of it can help in a longer life.

This heart rate system is an android application which he can view even through the smart watch. This application works with the heart rate sensor embedded in the smart watch.

The user can install the application in the android mobile and view his activity and get recommendations accordingly.

Objectives:

- 1) Convenient and efficient
- 2) Have a track of medical record
- 3) Cost-effective
- 4) Recommendations from analysis

System features:

- Continuous collection of heart rate data
- Storage of data
- Analysis on the tasks done and the heart rate

- Suggest possible consequences
- Recommendations of precautions to be taken.

Related Work:

None

BIBLIOGRAPHY:

<http://www.wareable.com/fitbit/fitbit-70-of-people-ignore-heart-rate-data-1523>

<https://dev.fitbit.com/docs/heart-rate/>

<http://www.livescience.com/42132-heart-rate-activity-tracker-useful.html>

Backup Project:**Motivation:**

It is difficult to consult a doctor for every small ailment. So in our project we intend to build an android mobile app that takes symptoms that are being experienced by the patient.

Significance/Uniqueness:

Based on the input provided by the user, analyses it and gives out related disease and suitable medication for it.