
Old(?)
MONK

just a few **questions**..

- is it anyone's birthday tomorrow?

- were you supposed to take any medicines today?

- what did the doctor say during your previous check-up?

- did you have a good sleep last night?

relatively easy for us to
answer these right?

what about our **grandparents?**

how **easy** is it for them?

moving on to the
PROTOTYPE

Heart Rate Tracker

Heart rate is tracked in **Beats per Minute** and details of the same are **monitored regularly**.

Alerts are generated in case of **abnormal pulse rates**.

Data from the heart rate sensor can also serve as an additional input to an **SVM classifier** along with other fields which can be provided by the concerned physician and used to detect **cardiac anomalies**.

Sleep Cycle Analysis

Sleep cycle of user is studied by **detecting changes in the users sleeping position** by measuring vibrations in the mattress using an **Inertial Measurement Unit** built into the prototype.

Each movement corresponds to a termination of a REM cycle. Hence this can be used to monitor sleep cycle. A **graph** of the same is generated for the user.

This can also be used in a sleep cycle alarm clock which does not wake the user during deep sleep.

Reminder System
from Speech of Users

Converts User's **Speech to Text**.

Extracts details about Remainders from the text using **Natural Language Processing Toolkits**.

A built in **personal assistant** gives a list of these **reminders** to the user which are also printed on the **GUI**.

Location Tracker

Has a **Where Am I?** option for the user to find out his/her location.

This is stored in a database and the user can find out about the places he **previously visited**.

This feature is beneficial for the people with **Alzheimer's Disease**.

answers

to those few questions?

easy for everyone right?

Not so

Old()

MONK