Visualizing and predicting heart diseases with an interactive dash board ppt

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Abstract

- The Heart Disease Prediction application is an end user support and online consultation project.

- Here, we propose a web application that allows users to get instant guidance on their heart disease through an intelligent system online.

- The application is fed with various details and the heart disease associated with those details.

- The application allows user to share their heart related issues.

- It then processes user specific details to check for various illness that could be associated with it.

- Here we use some intelligent data mining techniques to guess the most accurate illness that could be associated with patient's details.

- Based on result, system automatically shows the result specific doctors for further treatment.

- The system allows user to view doctor's details.

- The system can be use in case of emergency.

Software Requirements:

- Windows 7or higher.

- Sql 2008

- Visual studio 2010

Hardware Components:

- Processor – i3

- Hard Disk – 5 GB

- Memory – 1GB RAM

- Internet Connection

Working Modules

The system comprises of 2 major modules as follows:

Admin Module

1. Add Training Data

2. Add Doctor Details

3. View User Details

4. View Feedback

5. View Doc Details

6. View Training Data

User Module

1. Register (With Details like Age, Sex, etc.)

2. Check Heart (By providing Details like

   i. Chest Pain Type
   ii. Fasting Blood Sugar
   iii. Resting Electrographic Results(Restecg)
   iv. Exercise Induced Angina(Exang)
   v. The slope of the peak exercise ST segment
   vi. CA – Number of major vessels colored by fluoroscopy
   vii. Thal
   viii. Gender
   ix. Age

3. System will accordingly view Doctor to consult

4. Give Feedback

5. View Doctor

Advantages: -

- o User can search for doctor's help at any point of time.
- o User can talk about their Heart Disease and get instant diagnosis.
- o Doctors get more clients online.
- o Very useful in case of emergency.

Disadvantages:

The system is not fully automated, it needs data from user for full diagnosis.

Application:

This application can be used by all patients or their family members who need help in emergency.

Thank you