

Visualizing and predicting heart diseases with an interactive dashboard 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 7 or 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: -

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