Project Design Phase-I

Solution Architecture

Date	20 October 2023
Team Members	Yepuri Harsha Vardhan 21BCE9835 Manjunath Reddy Busanagari 21BCE9899 Vemula Kesavaaditya Gupta 21BCE7839
Project Name	Visualizing and Predicting Heart Diseases with an Interactive Dashboard
Maximum Marks	4 Marks

Solution Architecture:

It predicts heart disease using Machine learning prediction process by real time data. It offers personalized heart disease risk assessments by considering both health data and lifestyle choices, empowering users with tailored recommendations. This project bridges the gap between data analytics and preventive healthcare, promoting awareness of heart disease risk factors and supporting professionals in patient care. This solution positively impacts society by enabling early detection of heart disease, promoting timely medical attention, reducing healthcare costs, and enhancing overall public health.

Our solution leverages Data Visualization techniques to address heart disease prediction effectively.

- Data Gathering
- Model Building
- Heart Disease Prediction
- Real Time -Analysis

Solution Architecture Diagram

Input CSV

MySQL

Data Cleaning

Tableau Desktop

Analysis using Visualizations

Machine learning Model

Prediction

User

User Interface

Dashboard

Tableau Public

Flask

Heart Disease Prediction using Dashboard Integrated to Web Application

User Input