Visualizing And Predicting Heart Disease With An Interactive Dashboard

Proposed Solution:

* Heart disease is the main cause of death in the developed world. Therefore, efforts must be made to reduce the likelihood of suffering a heart attack or stroke.
* This database has 9 fields in it.

**The data Dictionary is as follows:**

|  |  |
| --- | --- |
| S.No | Field Name |
| 1. | sbp |
| 2. | IdI |
| 3. | adiposity |
| 4. | tobacco |
| 5. | alcohol |
| 6. | typea |
| 7. | age |
| 8. | FamHist |
| 9. | CHD |

* Utilize this dataset to identify the patients who are most likely to develop a cardiac condition soon using the provided features.

Novelty:

* Over the past few decades, heart illnesses have become the leading cause of death worldwide in both industrialized and developing nations. The mortality rate can be decreased through early identification of heart disorders and ongoing clinical monitoring by professionals. Since it takes more intelligence, time, and knowledge, it is not always possible to accurately monitor patients every day, and a doctor cannot consult with a patient for a whole 24 hours. In this project, we have established and researched models for predicting heart illness using the patient's numerous heart features, and we plan to produce an interactive dashboard that will allow us to analyse heart disorders depending on a person's age, sex, and blood pressure available in the dataset.

Feasibility of the idea:

* understand core ideas and have experience with IBM Cognos Analytics In order to offer a viable answer, gain a thorough understanding of charting various visualizations. able to develop useful dashboards and visualizations . We take into account a dataset with 9 variables and use it to conduct investigations and create visualizations in order to analyze the patient's heart conditions.

Business Models:



Scalability of the solution:

* We'll conduct investigations and visualizations. We will investigate blood pressure versus coronary heart disease, CHD with family history, blood pressure by age, and cholesterol by age.
* Average age for CHD, average BMI for a sufferer, age-related variations in blood pressure, the average age of people with heart disease, maximum tobacco, and alcohol when the cardiac disease is present All of them are visualizations.