Visualizing and Predicting Heart Diseases with an Interactive Dash Board

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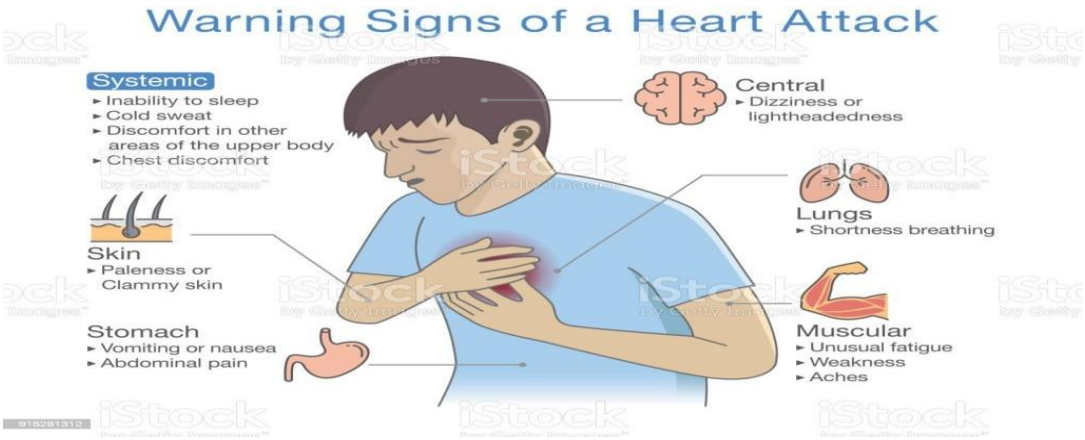
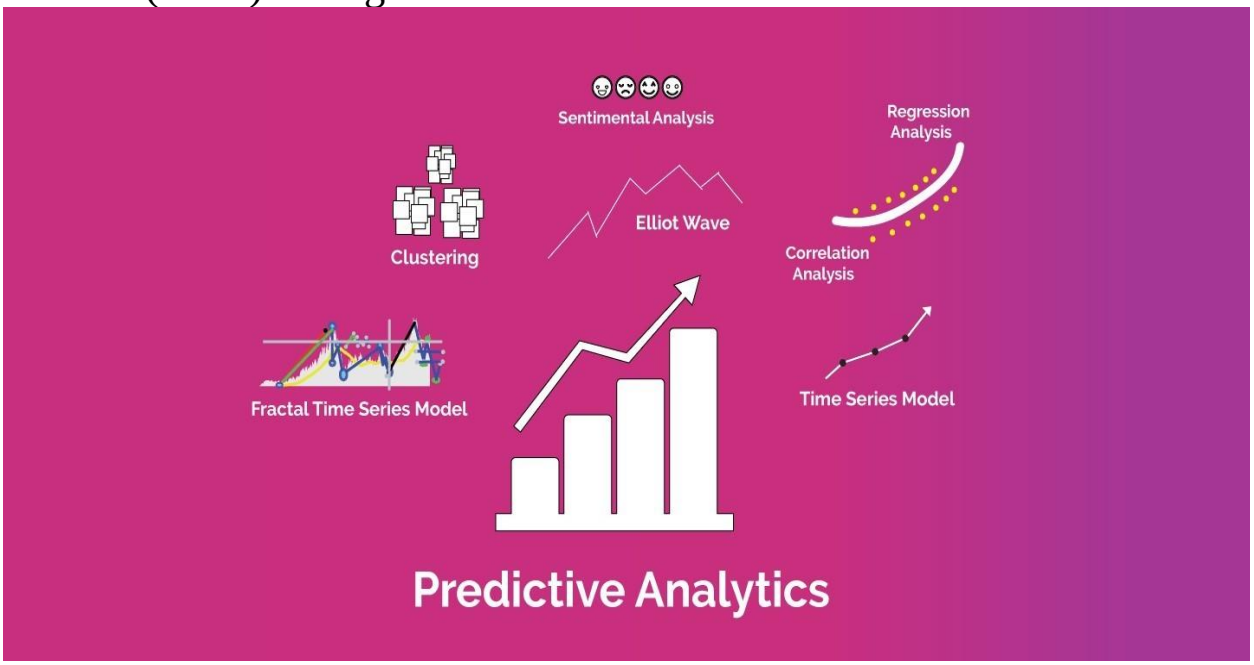
PROBLEM STATEMENT:

The major cause of death in the developed world is heart disease. To analyse and predict which patients are most likely to suffer from heart disease in the near future we have to find out some solutions.



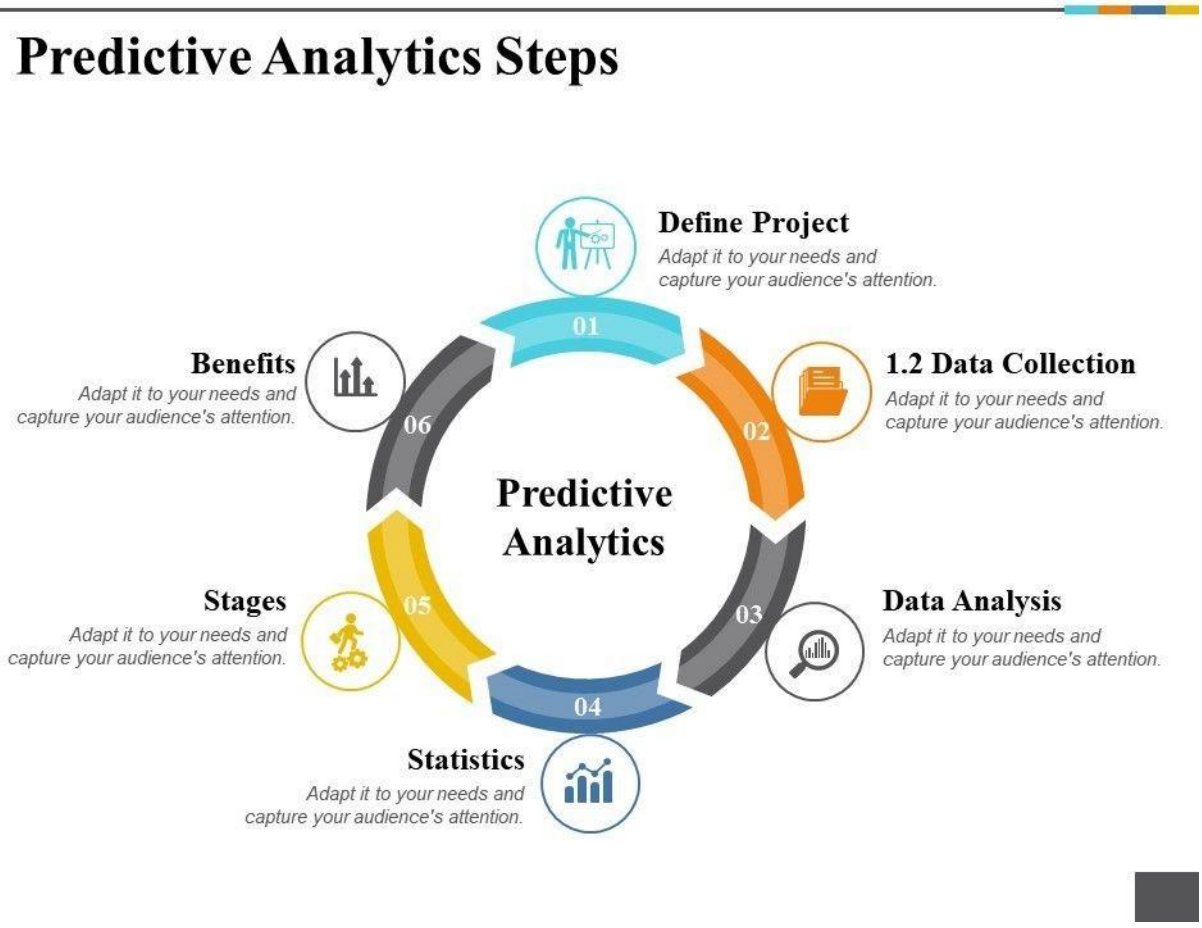
IDEA /SOLUTION DESCRIPTION:

So for the above-mentioned problem statement, we can create or develop an interactive dashboard of visualizing the people who might have the possibilities are high chance of getting Cardiovascular Diseases(CVD) through a collection of datasets.



NOVELTY /UNIQUENESS:

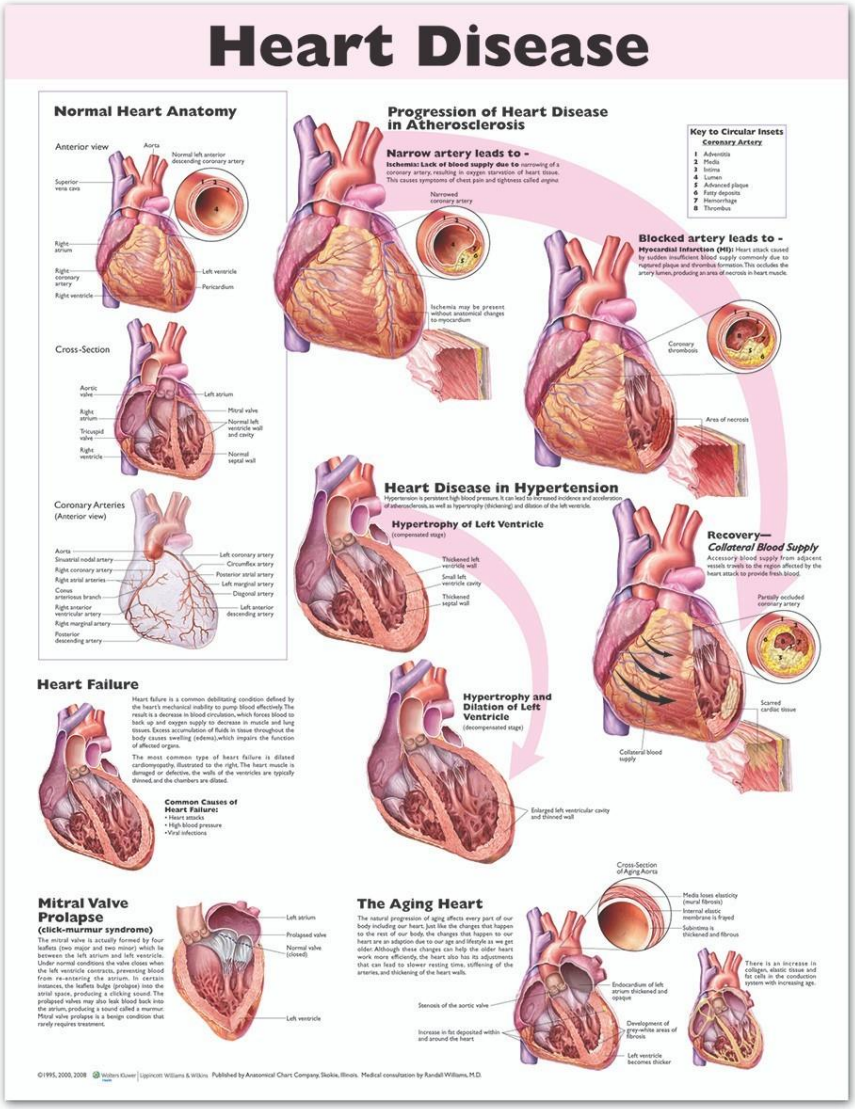
Most of all heart diseases can be identified and treated using ECG in the medical field, and the theory of curing can be handwritten and they get to research it and finally implement it in practice. But in the modern technology world, we can predict and able to prevent diseases through visualization of people who can get caught heart diseases through data analytics. Through this, we can create awareness among people who are all at a high risk of getting CVD. This makes a way easy for Doctors and it consumes time for them.



SOCIAL IMPACT/CUSTOMER SATISFACTION:

By using this method, we can separate the people who can be affected vs normal people, and it will play a vital role in combining both the medical and technology field.

Customers (patients) can get benefits through saving financial costs (spending on medical tests), and by collecting a dataset of their detailed condition, we can say whether they get affected or not. This makes older people travel less, and get results from their comfort zone.



BUSINESS MODEL(REVENUE MODEL):

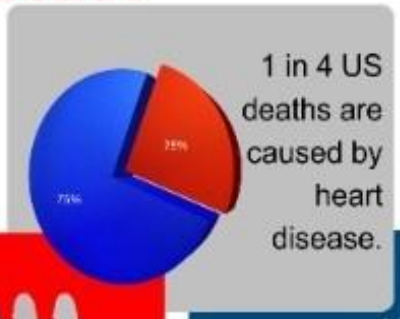
We can make revenue from this by making our developed model or a product form which can be modified into a software kit, application or a webpage where they can interact easily. This all comes and is developed under data analytics. We can get profited by selling or giving access with permission to our clients(Doctors).

SCALABILITY OF THE SOLUTION:

It is based on the number of users who maintain the software or a system according to its performance like workflow, increases or decreases in efficiency, response time etc... Its scalability can be measured by maintenance, checking for software, and fixing errors if occur in t h e server. By this, the good quality of t h e product is determined. If you suffer from a heart condition that interferes with your ability to work, you may qualify for **disability benefits**. There are a number of heart conditions that are specifically listed by the Social Security Administration as qualifying conditions. These conditions include chronic heart failure, ischemic heart disease, recurrent arrhythmias, hypertensive heart disease, an individual on the waiting list for a heart transplant or a heart transplant recipient, and more.

Heart Disease

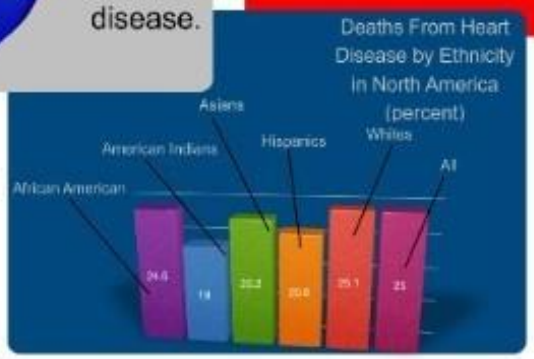
By: Brandon Clark



Risk Factors

Weight
Blood pressure
Blood glucose
Cholesterol
Tobacco use

One in two men, and one in three women, will die of a heart disease before the age of 40.



University of Iowa Hospitals and Clinics. Cardiac Inherited Disease Group. USA Today. Center for Disease Control.