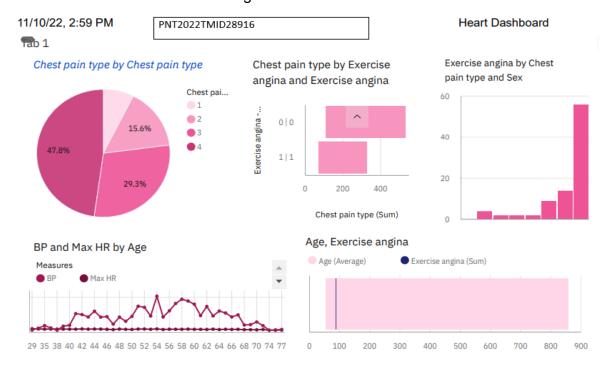
Performance Testing

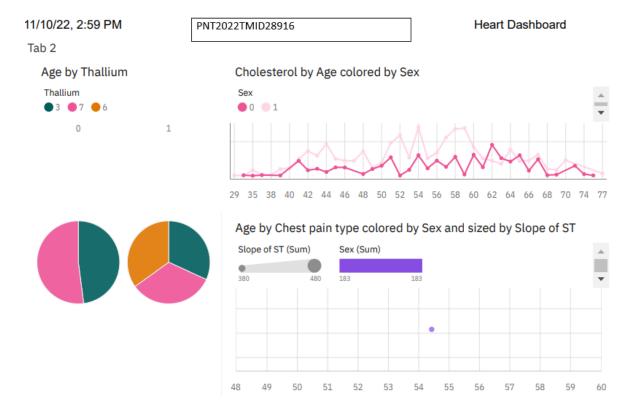
Dashboard & User Story Metrics

Date	08 November 2022
Team ID	PNT2022TMID28916
Project Name	Project - Visualizing and Predicting Heart Diseases with an Interactive Dash Board
Maximum Marks	10 Marks

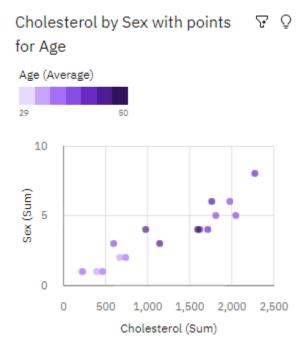
Dashboard design:

A dashboard is a visual representation of the most relevant information required to achieve one or more goals, condensed and presented on a single screen so that the information can be watched at a glance.

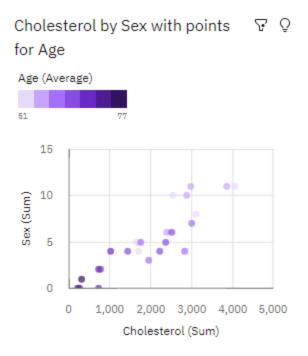




Data Responsiveness:



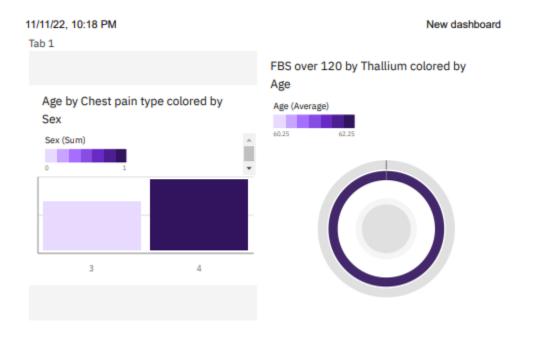
The above data is to determine cholesterol based on gender and ages between 27 to 50.



The above data is to determine cholesterol based on gender and ages between 50 to 77.

Here you can clearly see the change in the graph which is due to the filters and the responsiveness of the data.

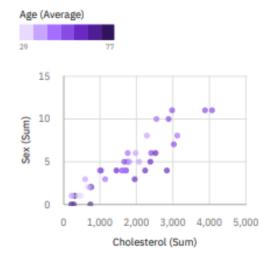
Amount Data to Rendered:



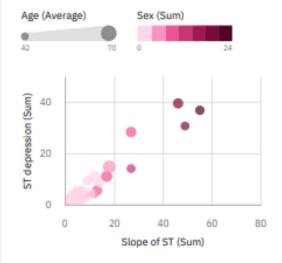
11/11/22, 10:18 PM New dashboard

Tab 2

Cholesterol by Sex with points for Age



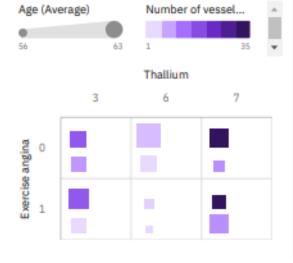
Slope of ST and ST depression with Age and Sex for BP



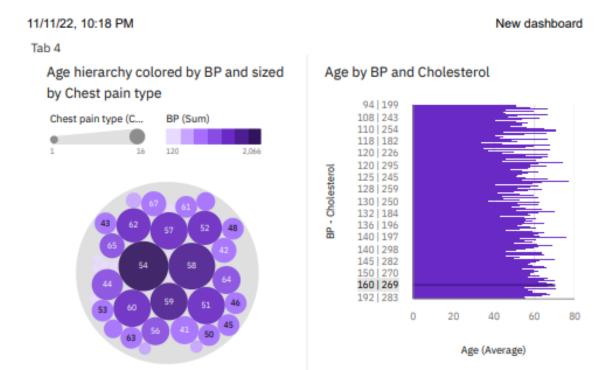
11/11/22, 10:30 PM

Tab 3

Exercise angina and Thallium with Age and Number of vessels fluro for FBS over 120



* New dashboard



Utilization of Data Filters:

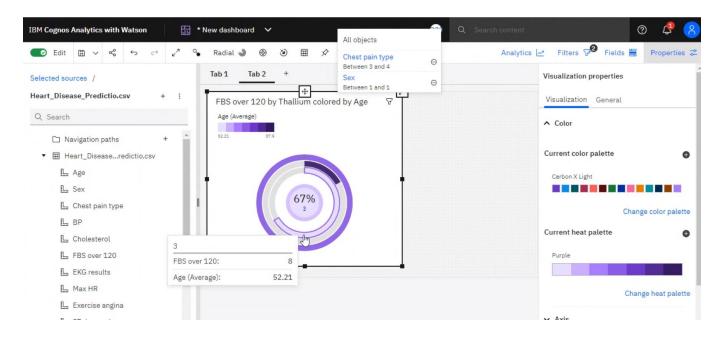
Data filtering is the process of selecting a smaller subset of your data set for display or analysis. Filtering is usually just temporary; the entire data set is maintained, but only a portion of it is used for the calculation.

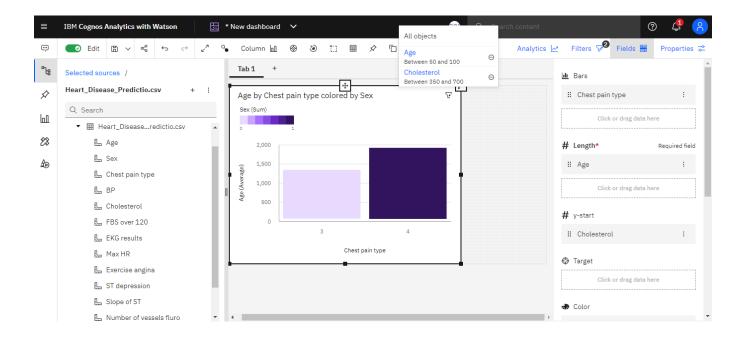
As the name implies, data filtering can assist you in removing unnecessary data.

Filtering can be used to assess how well statistical models and algorithms perform. The fundamental concept is to divide the sample into two or more groups, carry out the analysis separately on each group, and then compare the outcomes. Instead of employing a rule that is based on the data, this type of filtering would choose cases at random from the data. This process—often referred to as training, testing, and validating—ensures a reliable comparison.

When filtering this data,

- 1. We can establish a rule for the required observations.
- 2. We can choose the observations that adhere to the rule.
- 3. We can use only the data from those chosen observations to do the analysis.

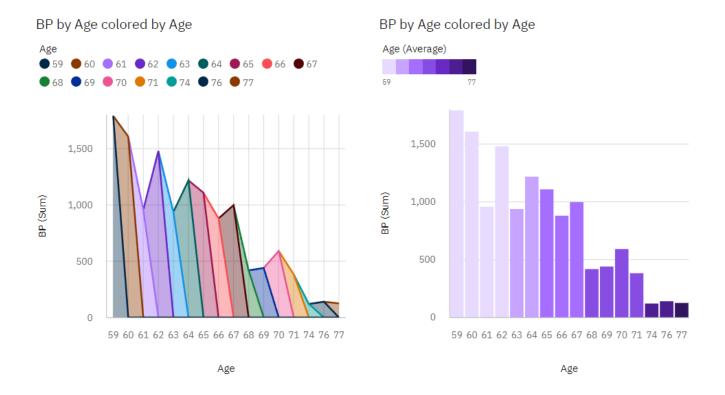




Calculation Efficiency:

There are various kinds of calculations made in the database as part of the query to the underlying data source. The performance of basic and aggregate calculations can generally be enhanced by a variety of database tuning strategies. Efficiency helps in defining the accuracy od a data. By visualizing a same set of data under multiple visualizations, the efficiency of the result can be determined.

Here we have taken the two data values, that is Age and BP. Four varieties of graphs are projected for BP by Age coloured by age. It helps in visualizing and determining the differences in the results of various visual methods.



Effective User Story:

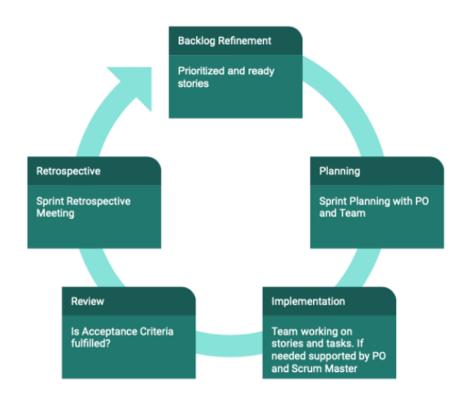
USER STORY:

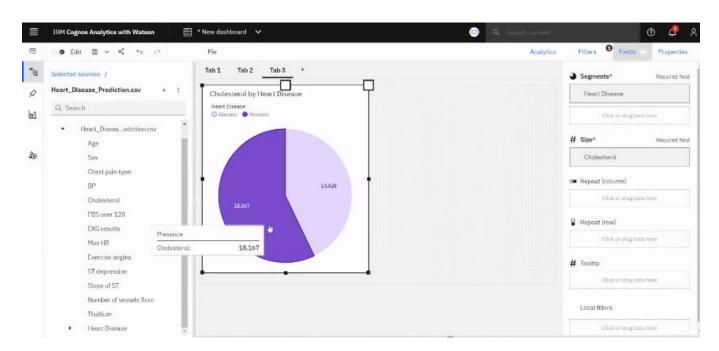
As an aging individual, I want an application so that I could predict my own cardiac health.

Let's break this down one step further;

As the user is an aging individual, we are building a heart disease predicting application which enables the user to predict their cardiac health immediately within a few seconds. The app has the user login and signup for the authentication of information, and it uses the Logistic Regression algorithm to predict the result.

We have visualized the user's query for their requirement only with respect to the Age and Cholesterol of the user. The prediction gives a result if the disease could be present or not.





Done By:

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- · Haini M

Team ID: PNT2022TMID28916