

# **Visualizing and Predicting Heart Diseases with an Interactive Dash Board**

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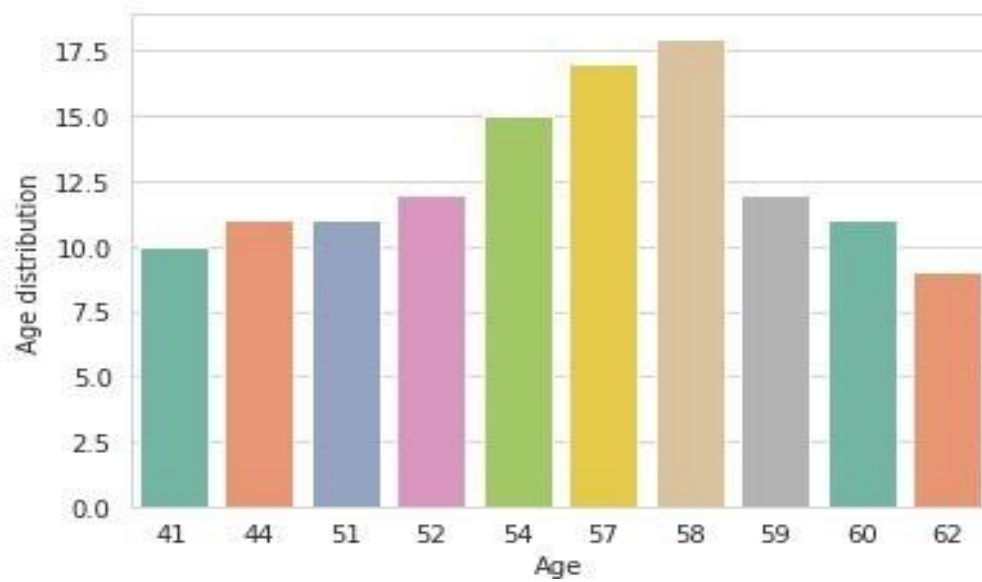
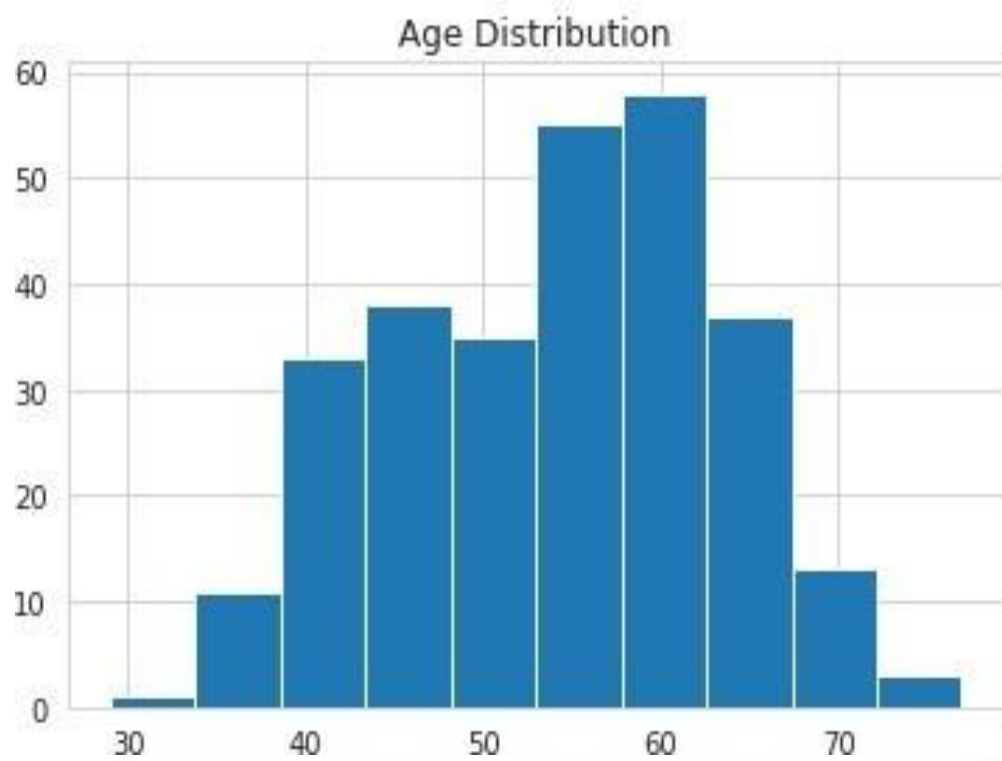
**Team member :** R.E.Rajeesh paul

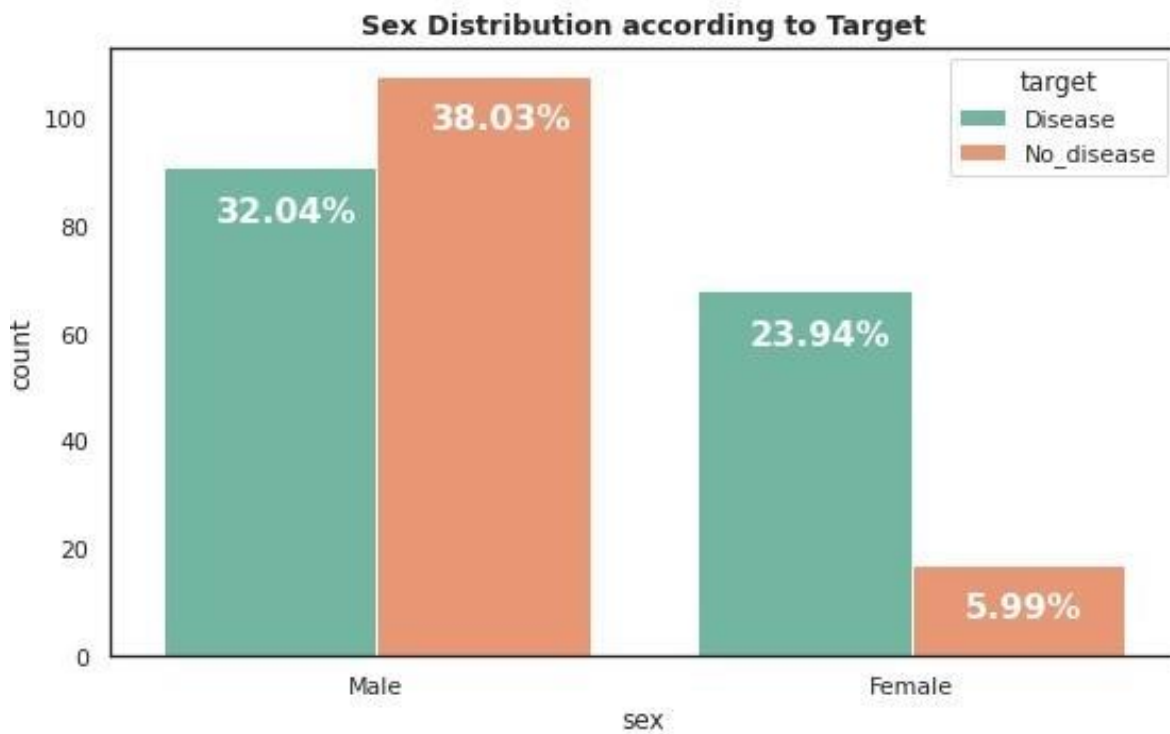
**Team member :** V.Siva Chandran

## **Exploration of Data :**

Exploration of Data relationships among the values is presented along with plotting of Average Age for different Chest Pain Types. For visualizing it, we will require the following data:

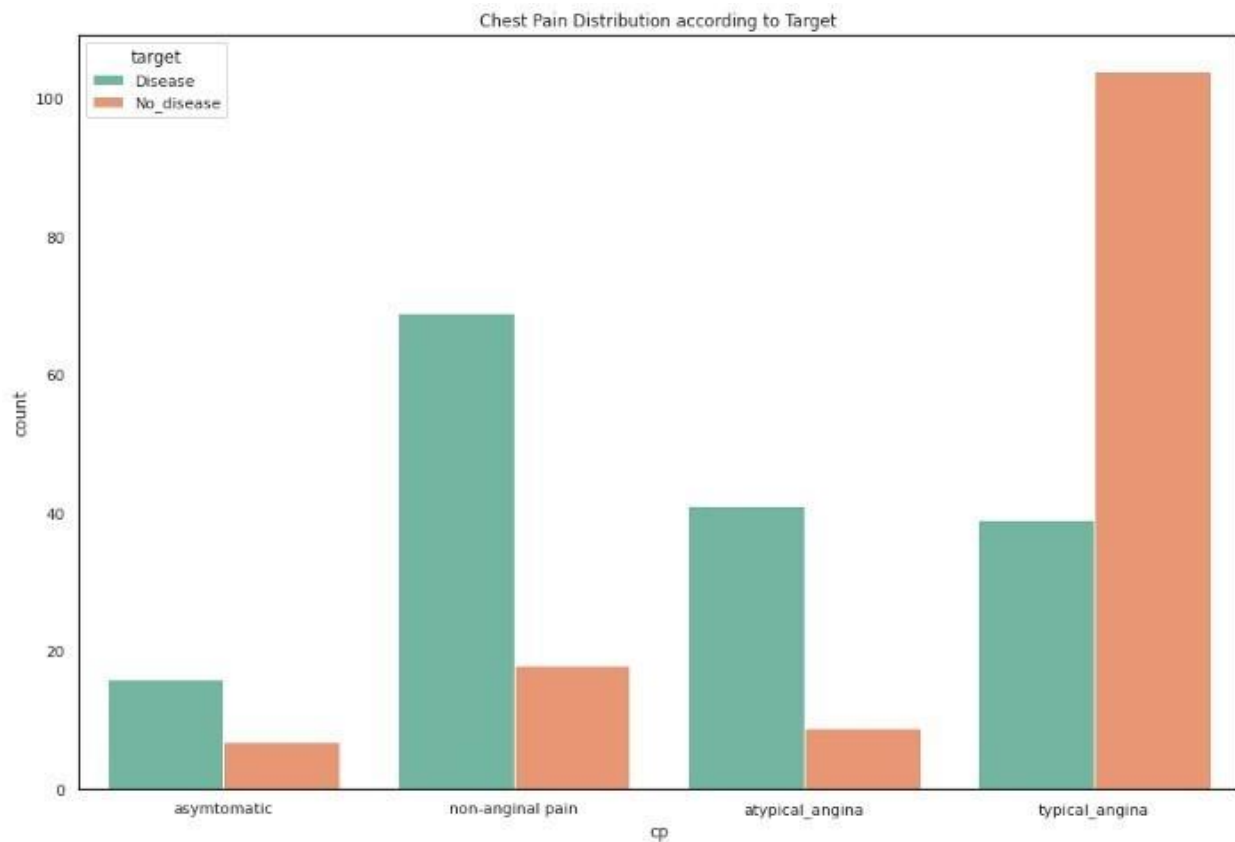
- \* Sex
- \* Age
- \* Chest Pain Type





From the bar graph, we can observe that among disease patients, males are higher than females.

### Chest pain distribution according to target variable :



Chest pain (cp) or angina is a type of discomfort caused when the heart muscle doesn't receive enough oxygen-rich blood, which triggered discomfort in the arms, shoulders, neck, etc.

However, looking at the bar graph above, raised a question of the higher number of healthy subjects having typical\_angina. Or in another word, most healthy subjects have chest pain, which is also discussed here.

Chest pain can be subjective due to stress, physical activities and many more and varies between gender. Women and elderly patients usually have atypical symptoms with a history of the disease. This article provides an analysis comparing typical anginal vs nontypical angina patients in a clinical trial.