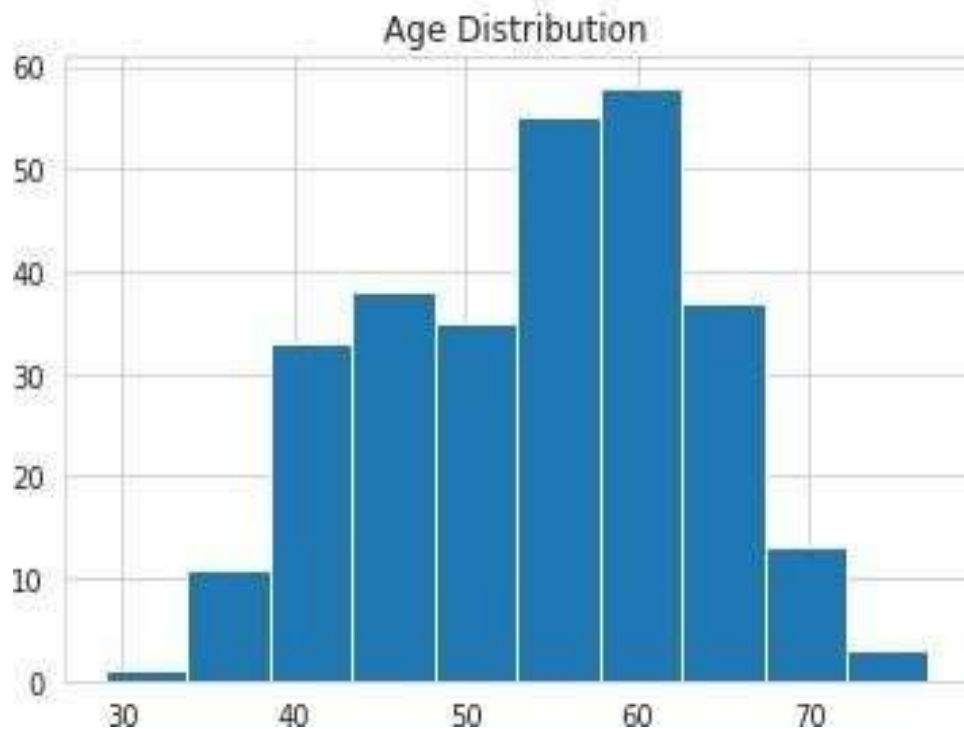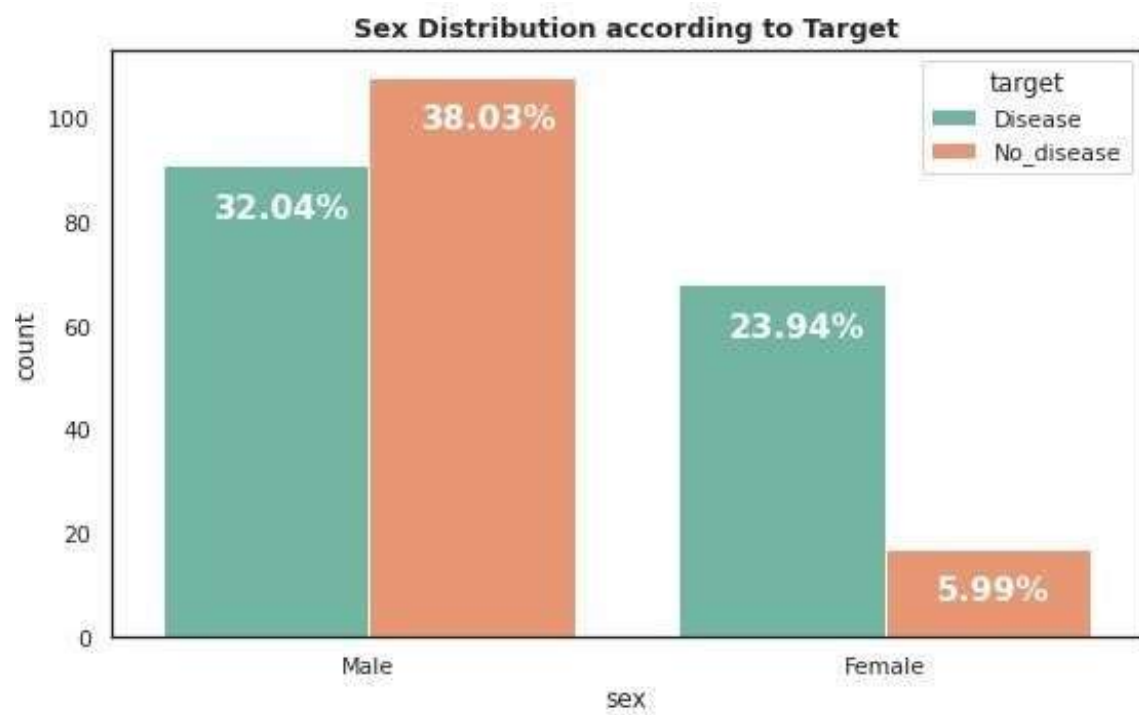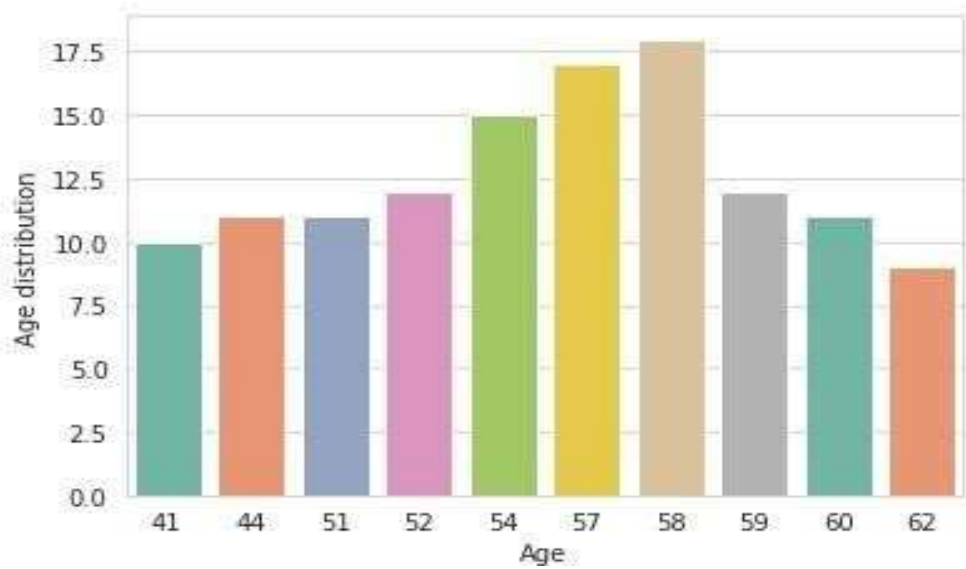| Team ID | PNT2022TMID05006 |
|---|---|
| Project Name | Project - Visualizing and Predicting HeartDiseases with An Interactive Dash Board |
| Team Members | Mohamed Mujahideen M<br>Deepak Raj I<br>Jeya Suriya S<br>Jesinth Kumar S |

# 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:
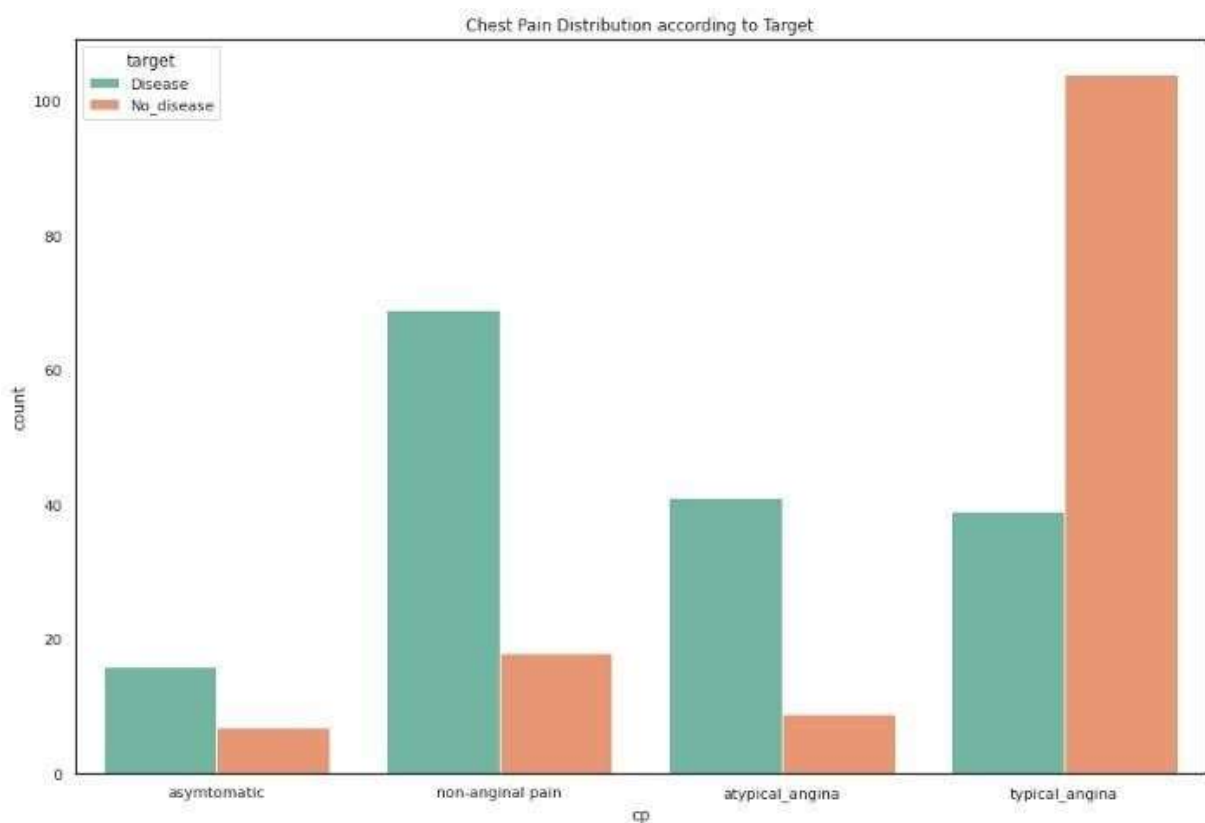
* Sex
* Age
* Chest Pain Type



Age Distribution

**Sex Distribution according to Target**

From the bar graph, we can observe that among disease patients, male is higher than female.

**Chest pain distribution according to target variable:**

Chest Pain Distribution according to Target

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

However, looking at the bar graph above, its raised a question of higher number of healthy subject having typical angina. Or in other word, most of the healthy subject having 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 disease. This article provide analysis comparing typical anginal vs nontypical angina patients in a clinical trial.