STT 811

In-Class Assignment 6

This problem will use the Heart dataset. The target is the AHD field.

- 1. Some of the fields are not clear. Find a website which describes the fields and read their description.
- 2. Determine whether the AHD target field is balanced or not.
 - a. The field is relatively balanced (55% No, 45% Yes)
- 3. Ignoring the X field (just an id) determine which fields are truly numeric or categorical.
 - a. Numeric: Age, RestBP, Chol, MaxHR, Oldpeak,
 - b. Categorical: Sex, ChestPain, Fbs, RestECG, ExAng, Slope, Ca, Thal, AHD
- 4. Do some exploratory data analysis on a few of the variables:
 - a. Age

```
summary(heart$Age)
Min. 1st Qu. Median Mean 3rd Qu. Max.
29.00 48.00 56.00 54.44 61.00 77.00
```

b. ChestPain

c. OldPeak

```
summary(heart$Oldpeak)
Min. 1st Qu. Median Mean 3rd Qu. Max.
0.00 0.00 0.80 1.04 1.60 6.20
```

d. Thal

```
table(heart$Thal)

fixed normal reversable

18 166 117
```