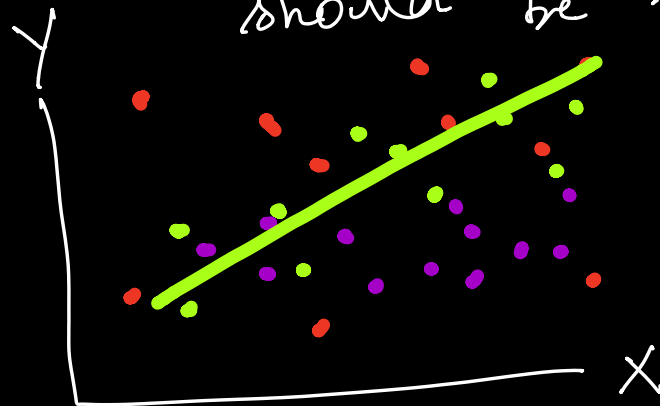


1. Assumption of Linear Regression.
 2. Data split ✓
 3. Error Metrics ✓
 4. Practical Implementation.
-

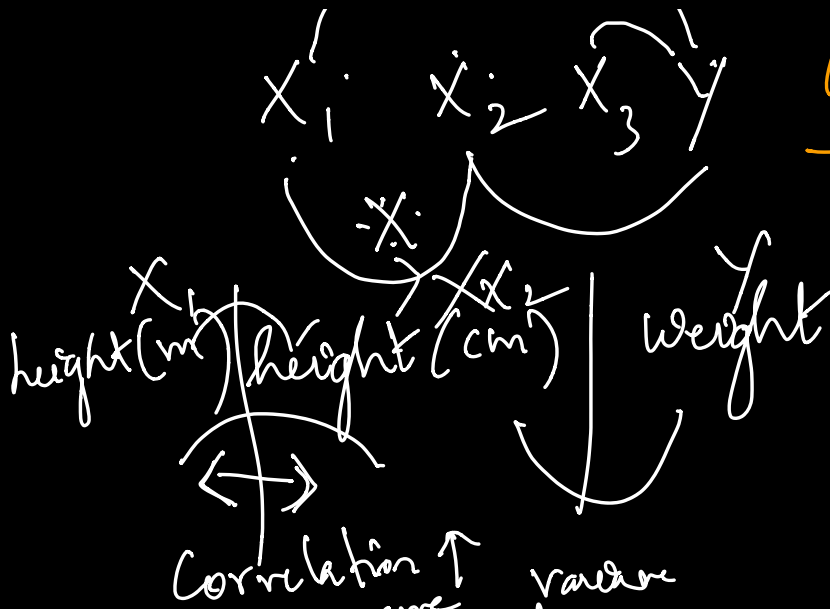
1. Assumption on Linear Regression.

1. Linearity ✓

relation b/w X and Y
should be linear



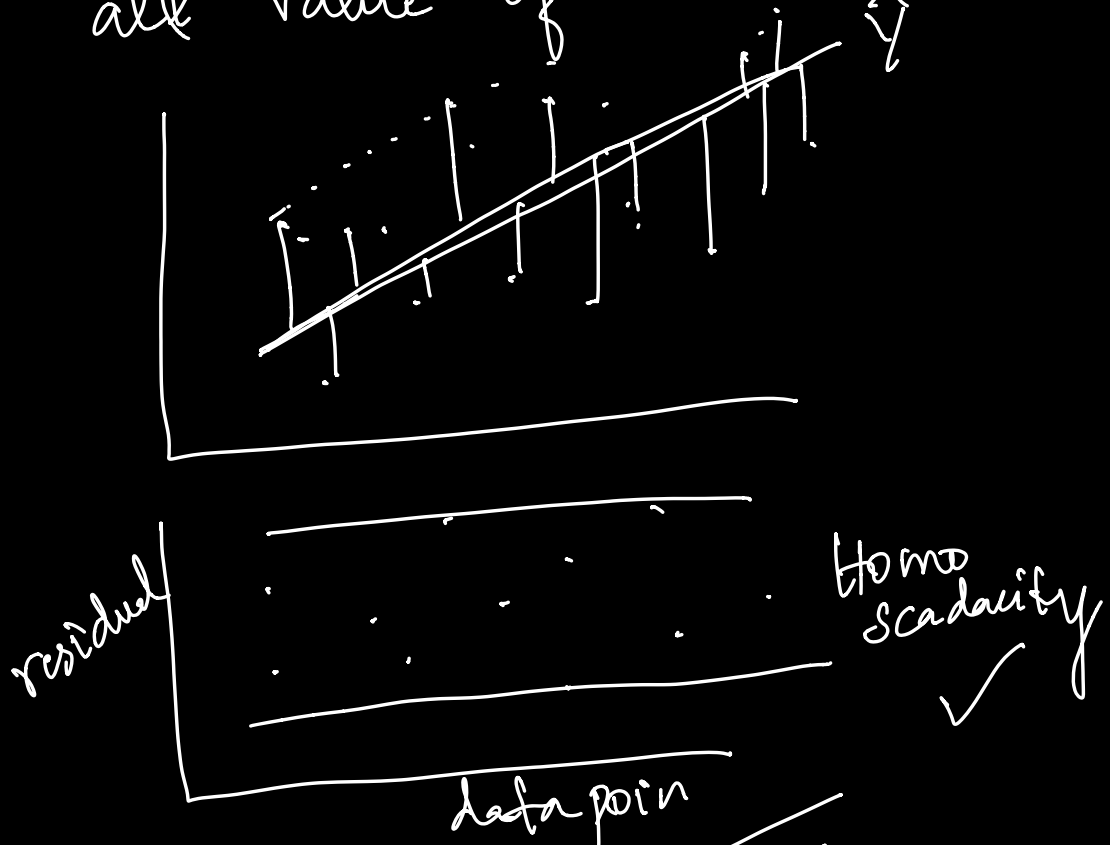
2. There should be less or
no Multi Collinearity ✓
- Multi Collinearity X

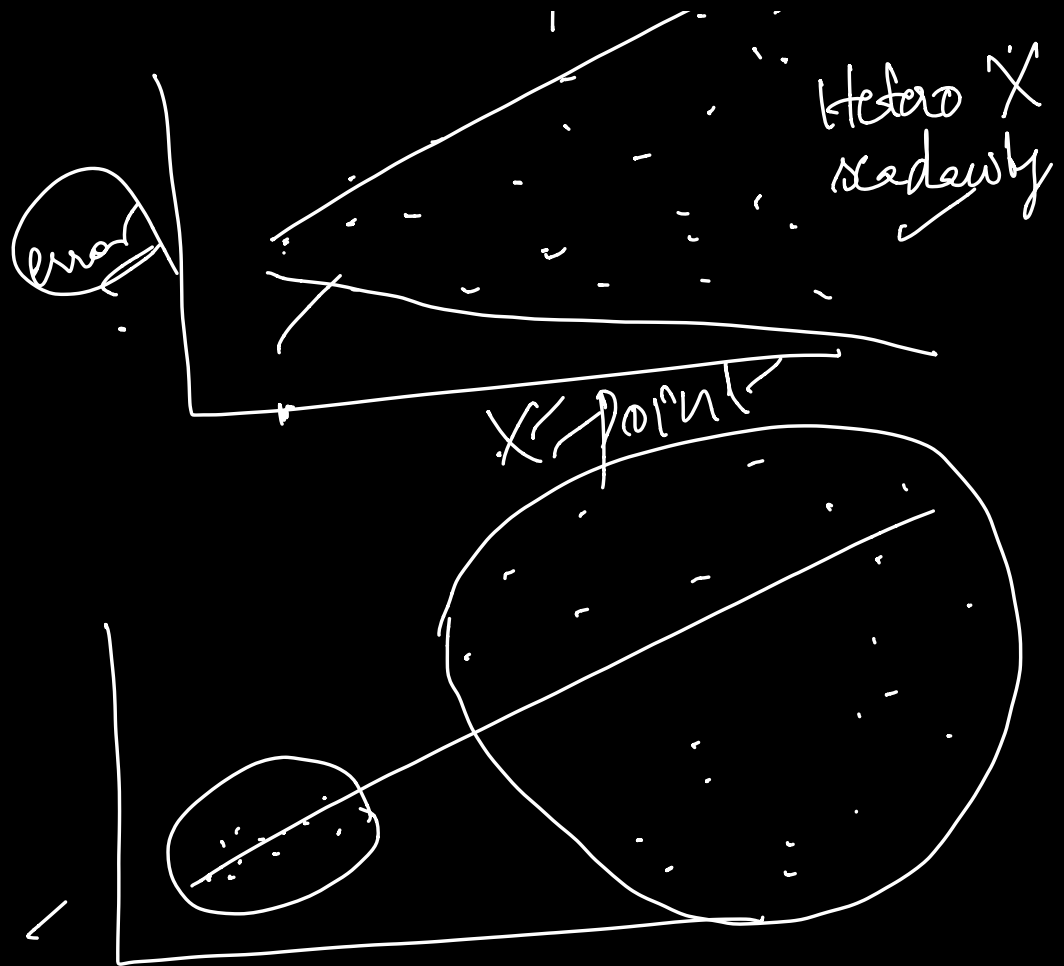


Correlation

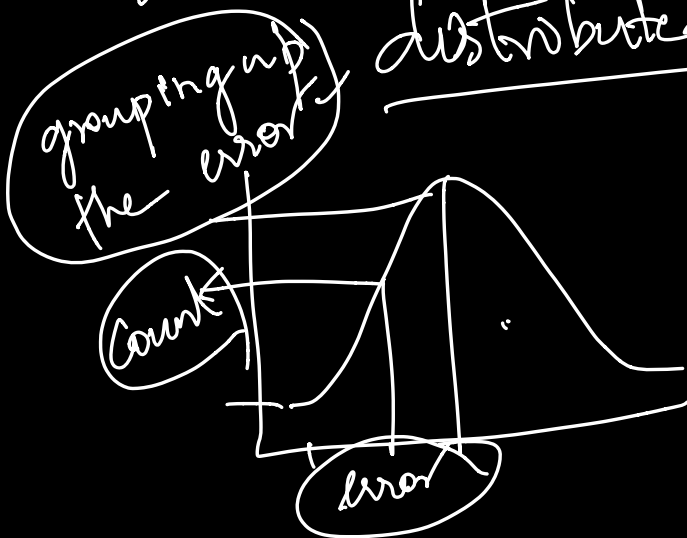
3. Homoscedasticity:

variance should be same of all value of residual

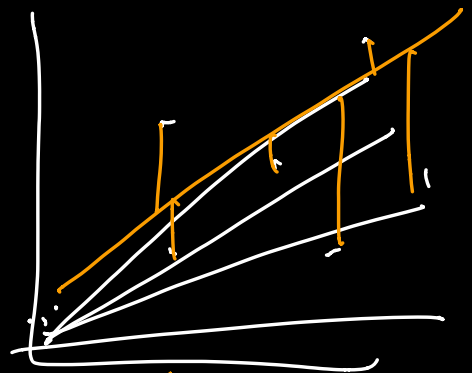




4. Error should be Normally distributed



Q-Q plot

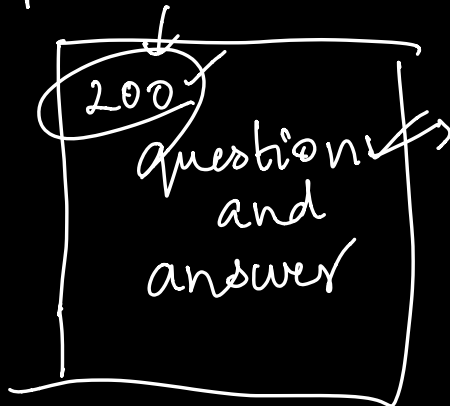


X_1 Edu	X_2 Age	X_3 Phone Number	X_4 City	X_5 Company	Salary
✓	✓	X	✓	✓	

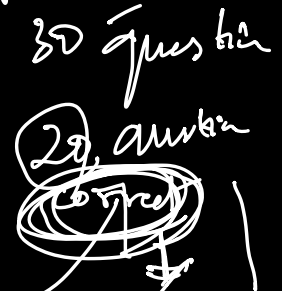
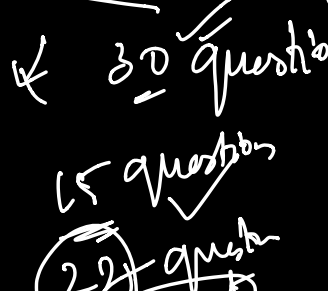
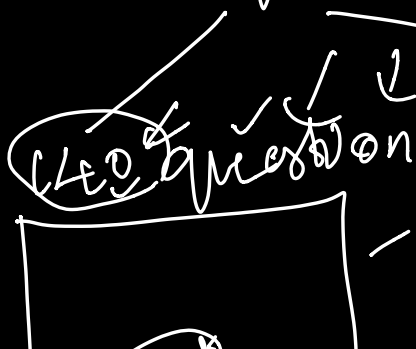
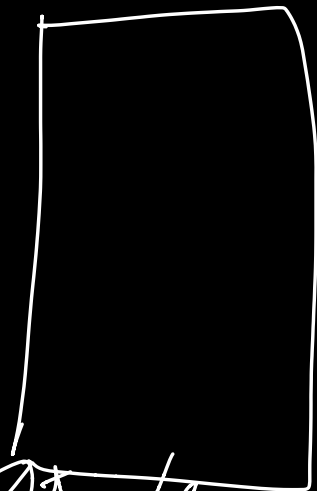
2. Data Split

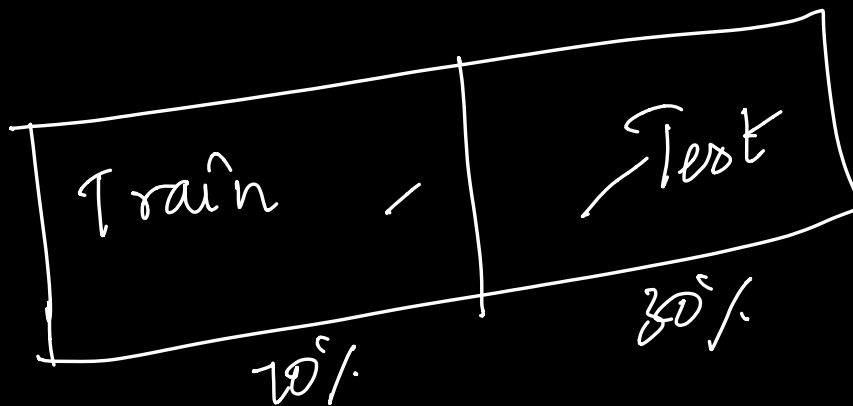
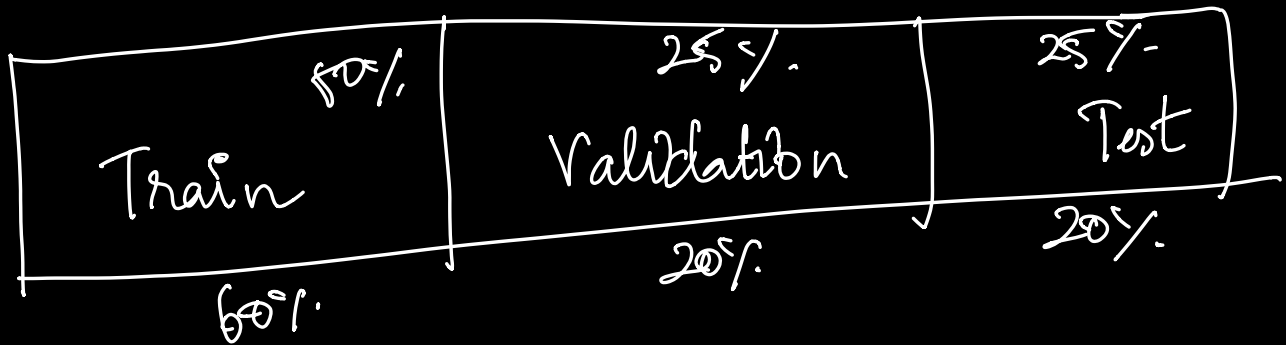
Topic: Subjects

Google
library
Text book



200 question





3. Error Metrics

1. Mean Squared Error (MSE)

$$\frac{\sum (y - \hat{y})^2}{n}$$

2. Mean Absolute Error

$$\frac{\sum |y - \hat{y}|}{n}$$

3. Root Mean Square Error

$$\sqrt{\frac{\sum (y - \hat{y})^2}{n}}$$

4. Mean Absolute Percentage Error

$$\sum \frac{1}{n} \left| \frac{y - \hat{y}}{y} \right| \times 100$$

5. R-square R^2

0 - 100

60%

Adjusted R^2