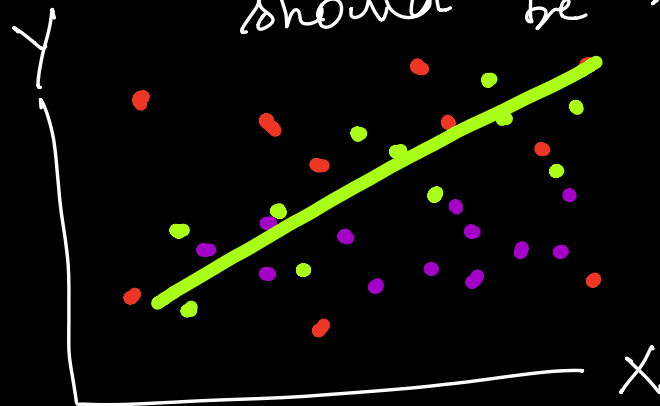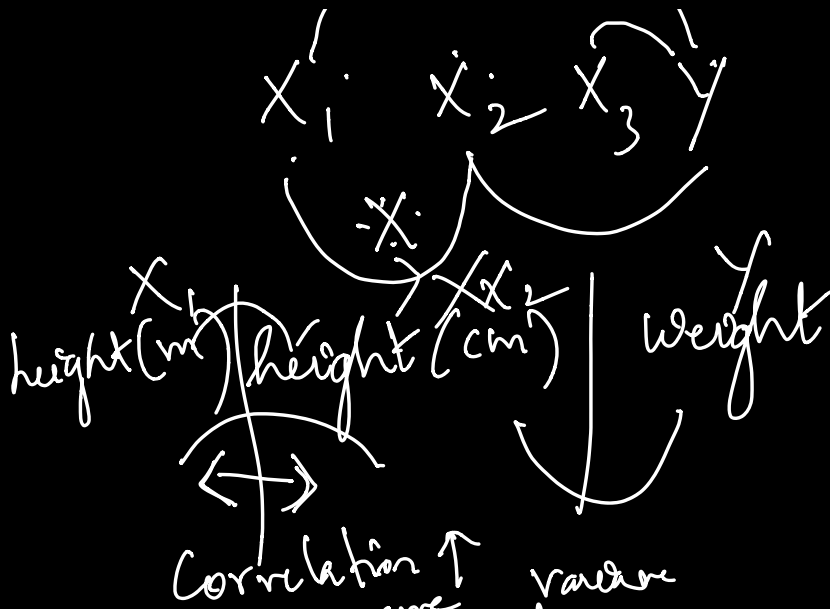1. Assumption of Linear Regressis.
2. Data split
3. Error Metris
4. Practical Implementation.

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1. Assumption on Linear Regression.

   1. Linearity →
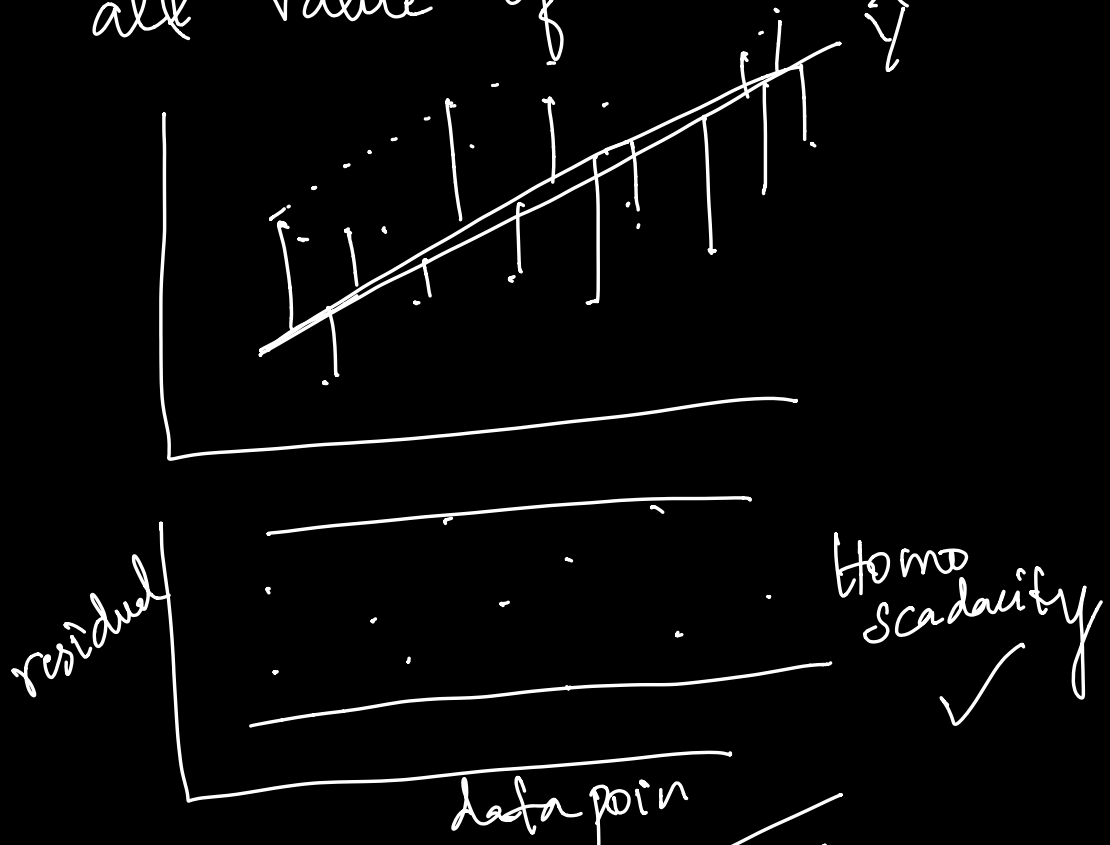
      relation b/w X and Y
        should be linear

   2. There should be less or
      no Multi Collinearity

$$X_1' \quad X_2' \quad X_3' \quad Y'$$

$$\bar{X}_i$$

$$X_1 \qquad X_2$$

height (m) | height (cm) | weight

Correlation ↑

same variance

3. Homoscadacity :

variance should be same of all value of residuals

residual

Homo scadacity ✓

data poin

Hetero X
scedacity

X point

4. Residual should be Normally
distributed

QQ plot