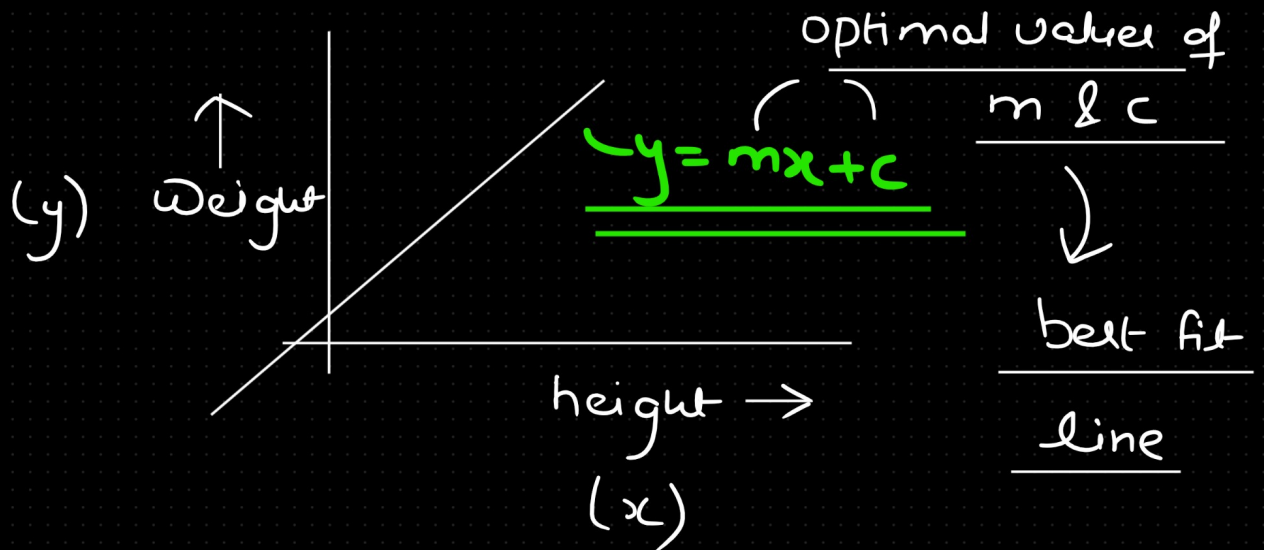


Linear Regression Assumptions

① Linearity →

$$\begin{array}{ccc} & X & y \\ (x_1, x_2, x_3 \dots x_n) & \rightarrow & y \end{array}$$

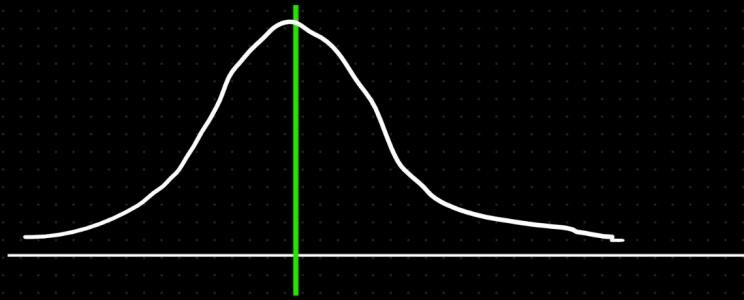


② Independence → $(x_1, x_2, x_3 \dots x_n)$

independent of each other

③ Normality → Residuals

Normal/Gaussian Distribution



mean = median = mode

④ Homoscedasticity \rightarrow Variance of
the Residuals
 \Downarrow
Constant