

Standard Deviation

Part - I

Root Mean Square Deviation (S) and Standard Deviation (σ)

Root Mean Square Deviation is the positive square root of the mean of the squared deviations from an arbitrary value A and is generally denoted by $S = \sqrt{\frac{1}{n} \sum [x_i - A]^2}$

Root mean square deviation calculated from mean is called the standard deviation and is generally denoted by σ (read as sigma)

$$\sigma = \sqrt{\frac{1}{n} \sum [x_i - \bar{x}]^2}$$

The square of the standard deviation is called the Variance

and is given by $\sigma^2 = \frac{1}{n} \sum [x_i - \bar{x}]^2$

















