Dispersion

13 October 2022 09:54

Measures of Dispersion: → Deviation b/w Sample obsvn & MCT (mean)

① Range: max − min

② Standard deviation (σ): $\sqrt{\frac{\Sigma(x-\bar{x})^2}{n}}$ RMSE (Root mean squared Error)

Square root of sum of the squares of the deviations taken from sample obsvn & mean is called Std

③ Variance: σ^2 (Square of Std)

$\sigma^2 = \frac{\Sigma(x-\bar{x})^2}{n}$ Mean Squared Error (MSE)

Var = 10000, SD = 100 →

Var = 0.002, SD = 0.04