Analysis Of Variance (ANOVA)

Assumptions in ANOVA

① Normality of Sampling Distribution of Means

The distribution of sample mean is normally distributed.

② Absence of Outliers

Outlying score need to be removed from dataset.

③ Homogenity Of Variance

Each one of the population has same variance

$$\left[\sigma_1^2 = \sigma_2^2 = \sigma_3^2\right]$$

Population variance in different levels of each independent variable are equal

④ Samples are independent and random.