Analysis Of Variance (ANOVA)

Assumptions in ANOVA

① Normality of Sampling Distribution of Mean

The distribution of sample mean is normally distributed

② Absence of Outliers

Outlying score need to be removed from the dataset

③ Homogenity of Variance

Population variance in different levels of each
independent variable are equal

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

④ Samples are independent and random.