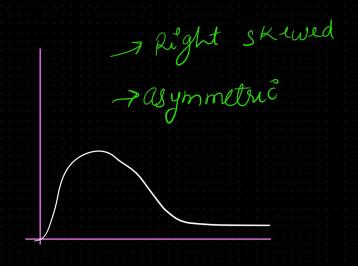
Statistics Day 05

chi-Square Test 7 Categorical
27 Goodnes of Fit

The chi-square test is a statistical test used to determine if there is a significant association b(w) the two categorical variable



$$\chi^2 = \sum \left(\frac{0 - E}{E} \right)^2$$

Chi-squar

0 = Observed Frequencies E = Expected Frequencies let say you are studying the relation ship blw smoking habit and lung cancer

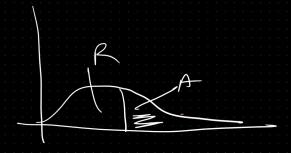
Your observed data

Smoker Non-Smoker Lung-Cancer Noding Cancer 50 30 20 70

F-tyl / FRatio / F Distoribution

The F-tool is used for comparing Variances or means of two de more groups.

FRatio = Variances 6/W groups Variances withingroups



Annova

Concept: ANOVA is an extension of the F test for comparing means of three or more groups. It assesses whether there are any statistically significant differences between the means of the groups.