Created by: Mona Al-Zanbagi



Goodness of Fit Test

Chi-Square goodness of fit

- The Chi-Square goodness of fit test used to find out whether a categorical variable follow the Uniform distribution. in other words, the Chi-Square goodness of fit test evaluates whether the categories are equal.
- The measurement scale is usually ordinal or nominal for Chi-Square goodness of fit test.

EXAMPLE

The following table shows the blood type for a sample of 120 participants, is this sample follow the Uniform distribution?

Blood type	Α	В	AB	Ο
Frequency	51	11	5	53

Created by: Mona Al-Zanbagi

KOLMOGOROV-SMIRNOV

Goodness of Fit Test

Kolmogorov-Smirnov goodness of fit

- The Kolmogorov-Smirnov goodness of fit test used to find out whether a quantitative variable follow the specific distribution. These distributions are Normal, Uniform, Exponential and Poisson distributions.
- The measurement scale is usually scale for Kolmogorov-Smirnov goodness of fit test.

EXAMPLE

The following data show the degrees of 10 students in a particular exam, do these data follow the Normal distribution?

30	15	16	26	16
25	15	29	27	30