

Answer on Question #65200 – Math – Statistics and Probability

Question

Can you help me define null hypothesis? I have made one and I'm not sure if it includes all the aspects of null hypothesis.

Null hypothesis is a hypothesis which states that there is no difference between the scores of two variables or an observed and a theoretical distribution. It is the statement that is tested in a test of statistical significance.

For e.g. :

I have read from random sources that it can also include the non-association of two variables. (Like the driving speed and gender are not related) But I don't completely understand that to include it in definition.

Solution

The null hypothesis is the hypothesis that the researcher is trying to disprove.

The example in the question uses the chi-square test for independence [1].

H_0 : Variable A and Variable B are independent.

H_a : Variable A and Variable B are not independent.

References:

[1]. Chi-Square Test for Independence. Retrieved from

<http://stattrek.com/chi-square-test/independence.aspx?Tutorial=AP>