

Module 3: Statistical Inference

Assignment

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Assignment 3: Statistic Essential for Analytics

Question1: An employee is asked to test the hypotheses:

$$H_0: \mu = 80$$

$$H_A: \mu > 80$$

with $\alpha = 0.05$

After taking a sample, he calculates P-value = 0.312.

After observing the above data, he makes the following conclusion: "*This sample proves that we accept H_0* ".

Comment on the conclusion and rewrite it correctly.

Question2: An Employee is asked to test a null hypothesis on company's sales data. He calculates a probability of 0.75, but then he realizes it is a two-tailed test and doubles this to get a P-value = 1.500.

Is this statement valid? If NOT why?

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