

## A.P. SHAH INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering Data Science



Subject : Statistics for ATIDS Academic Year: 2028-2024. TYPE I ERROR & TYPE I ERROR:-

In order to do a significance test, we come up with. null hypothesis (Ho) and attemate hypothesis (Ha). We do the lest to either accept the null hypothesis cord to refect the null hypothesis. We take a sample from the population and calculate the statistic to test the hypothesis. From the statistics we calculate the probability of slottistics (PValue).

if \*p-value < a > Reject Ho.

A p-value > x → Fail to reject null hypothesis. Consider the below table.

		Ho-false.
Rejed Ho	Type I From	Corred Conclusion.
Fail to rejed	Correct Conclusion.	Type II error.

Rometimes, the null hypothesis is true but we may reject to that is called as type I Error. It is also called as false negative positive error.

If the null hypothesis is false, but we fail to rejed to, then it is type II error. It is also called as false negative error result.

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