* Hy pothesis testing an assumption regarding a population It is an act in statistics where we test

ONUI hypothesis is stastical throug that suggests

P value is the region with minimum

significance level.

ex- consider Normal Distribution, with = 54. = 0.05) (I = 95.7. = 0.95

their is no statistical significane exists

between the sample and population.

We test an hypothesis by measuring and

It is done to check plausability of null examining a random population sample. hypothesis

> We take sample of a population and then try to conclude about the hypothesis. O Level of significance (or) is fixed probability malie certain assumptions about population based on sample called hypothesis and Sample Assumptions Population

Condusions

ex-if ~= sy. that means we are okay to

Conclusion can be that Null hypothesis accepted

accepted or Null hypothesis rejected within Test stastic (T) is dependent on test and Confidence Introval Confidence Intraval. ox we failed to reject Null hypothesis within is basically calculated value of exitical value (c)

> Altranate hypothesis is stastical throopy that suggests their is statistical significance It is basically the default assumption which is made about population based on facts

Bastally its just opposite of what we assumed in null hypothesis.

-> Null hypothesis represented by Ho and altromate hypothesis by H1 or Ha.

of rejecting a True Null Hypothesis

o Cartical value CO is the value in distribution difference when their is no actual difference take s.1. xisk and conclude their exists a

onfidence Interval (CI) is the range of value @ P-value is exopostion at samples that would be at extreme end of distribution Critical value is the end point of CI in which Null hypothesis is accepted beyond which Null hypothesis is rejected.

and null hypothesis is rejected here.

Punlue Zay/2 Clower

-> Procedure for testing A Define Nall and Alternate Hypothesis ■ set or and CI. Compute test statistics (choose which suitsdata) Conclude: · it + > cupper and + < Churs 1 Confidence Interval

oid p value > or , tail to reject null hypothesis. fail to reflect null hypothesis

@ it to Clower and to Cupper 1

reject the hypothesis.

e if p value ≤ or, xet ect hull hypo thesis