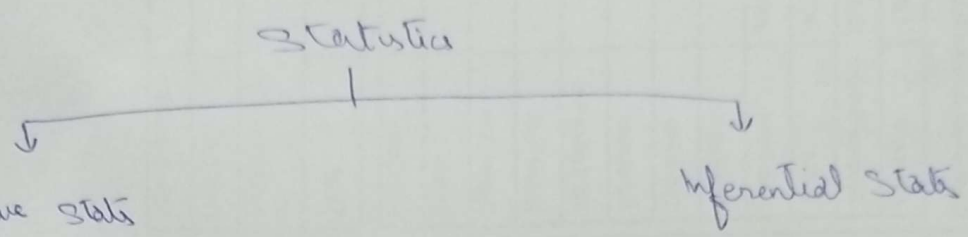


Statistics

{Data Never lies}.



→ Deal with Summarizing, Analyzing & Visualizing the Data.

→ Hypothesis testing
→ Null hypothesis (H_0), Alternate hypothesis (H_1)
→ Deal with Assumption of population data using sample data, to find out the conclusion.

1- What is Statistics & its Types:

Def: statistics is the science of collecting, organizing & analyzing the data.

↓
[Raw Facts & Figures
OR
Facts or pieces of information]

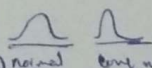
Types:

1) Descriptive Stats

→ It consists of organizing & Summarizing the data.

Topics:

- Measure of central tendency (Mean, median, mode)
- Measure of Dispersion (Variance, Std)
- Different type of distribution of data
- Histogram (To see the frequency of elements),

Pdf (Probability distribution function) 
(this type of distribution has details) normal distribution, long tail normal distribution

2) Inferential Stats

→ It consist of using data you have measured to form conclusions.

Topics:

- Z-test → t-test
 - CHI SQUARE
 - ANOVA (F-test)
- } Hypothesis Testing
 H_0, H_1
P-value, significance.