SAMPLING DISTRIBUTION



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What is Sampling Distribution ?....

 Probability distribution Range of possible outcomes for a statistic

Population

Sample

Population

Elements Individuals

• Items

Objectives



POPULATION : Examples



ELEPHANT

FARIA DA

population of



Population of LIONS

Population of light bulbs





Variable

Parameter



Population



Variable

PARAMETERS: Examples





Population



Parameter

Sample



Subset of population

• a population

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It contains the characteristics of











Types of Sampling Distribution

Mean

Proportion

T- distribution

Mean

Probabilistic spread of all the means of samples fixed size that users choose randomly from a particular population

Proportion

Select samples and calculate the sample proportions. Identify the proportions of the population

T- distribution

Probability distribution
Symmetric & bell shaped
Population standard
deviation is unknown





<u>Central Limit</u> <u>Theorem</u>



Central Limit Theorem

Relationship between sample means & populations

Population is normally distributed

Normal population depends on the sample size

Thank you





