Introduction to Statistics

Defn: Stats is the science of collecting, organizing and analyzing data.

Data: "facts or pieces of Information"

Eg: Height of students in Elessroom

No.04 Salu in term of revenue of a company

Salary of people in Society:

Id of shulents in Classroom!

Typu of Statistics

1) Descriptive Stats

Difn: It consiers of organizing, Summarizing and visualizing

- 1) Heasure of Central Tendency [Man, Median,]
- (Measure of Dispersion (Variance, Standard deviation, Zi-Score).
- Diffuent type of Dishbution of date

 Eg: Histogram, pdf, pmf, Gaussian Dish,

 Log Normal Dist, Exponential, Bromial,

 Bernoulli Dish, Poirson

1 Infumtial Stats

John: It consists of using data

you have measured to form

Conclusion.

Sample Conclusion

& population

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hypotheris

2) t-tut

Turng, promy

3 (hisquare Tost

Significance

4) Anova Tust

Value.

Box plot, Violin plot, Histplot, Distribution Plot

And Feature Engineering]

EDIT -> Explorating Date Analysis.

Eq: hat say there are 10 cricket camps In Bangalore. and you have

Collected the height of cricketers from one of the Comp.

Phis) Height are recorded [175 cm, 180 cm, 140 cm, 140 cm, 135 cm, 160, 135].

Sample

Descriptive Question: What is the average height of the Ontire Classroom?

[Vising the Analysis]

[Vising the Analysis]

[Vising the Analysis]

[Vising the Analysis]

[Vising the Continual Classroom]

[Vising the Analysis]

[Vising the Analysis]

[Vising the Continual Classroom]

[Vising the Analysis]

[Vising the Analysis]

[Vising the Continual Classroom]

[Vising the Analysis]

Are the height of players of camp 1 Similar to that of Camp 2

Sample DATA

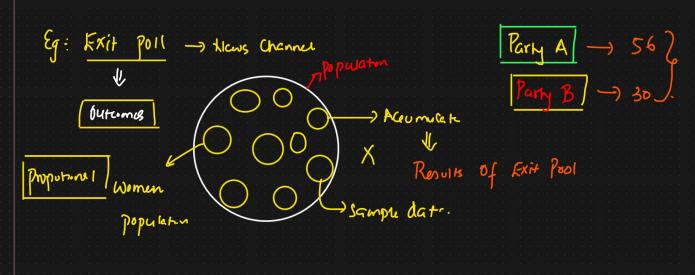
DATA

DATA

1) Population And Sample Data

Population (N): Population is a group or a superset of data that you are interested in studying.

Sample (n) ! A sample is a subset of population date.

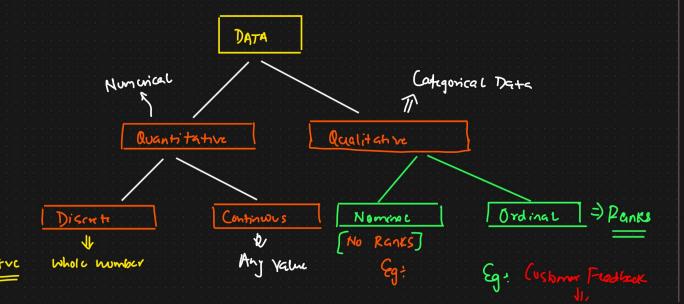


Eg: Types of Sampling Techniques -> Assignment

Sike Area Novoj Room Kocation Price

1500 Posh 3 Now York —

Bangalox —



New Dethi

Eg: No of children in a family.

Eg: Average Rac-pul

Eg: Gender, M,F {1,2,5,4,5}

Blood group

Kerse Price In Bangelow Colors

dungth of River

Country

Locatn

Ciny.

DAYS

Pincode.

No. of accounts in banks
No. of biky
No. of people working
in a company

Example Assignment

1) heigh of Different Rivers In the World?

- @ Favorike Food Band On Gender?
- @ Marital Status?
- 6 Id measurement?
- 1) Weckdays For IT Employees?
- 6 Weekdays For Krish?

Weekdays