Statistics Agunda 1) Sampling Techniques V @ Covaniance And Correlation Probability distribution function Probability density function (5) Probability Macs function 6 Commulative Dansily Function D Typu of Dismbution () Sampling Techniques 1) Random Sampling: Simple Random Sampling gives each member of the population an equal chance of being chosen for the sample-Eq: Vaccination Tut -> 100 -> Randonly Select Couple Accidental Test - 1000 - A - 2 vehicu Exit Poll Arrage Id of the school -> School 10 people [Stranfied -> dayers] 2) Stratified Sampling Stratified sampling Involves dividing the population into sub population that may diffu in important ways Salary Eg : Exit Pool >1



Systematic Sampling: Systematic Sampling is a Statistical method involving the solution of elements from an ordered sampling frame.

Eg: Airport

A Cresif (and company)

Mall -> Beauty

Product

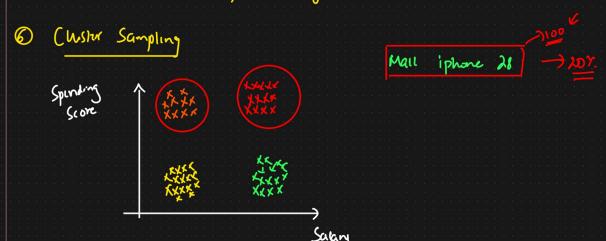
Mall -> Fill up a form for

a cause.

Men Women

(4) Convenience Sampling Assignment

(5) Rupposive Sampling -> Judgemental Sampling is a method where researchers decides which members of the target population will be sampled.



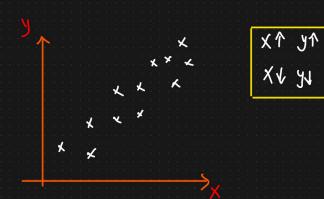
2 Coveriance And Correlation

5

8 9

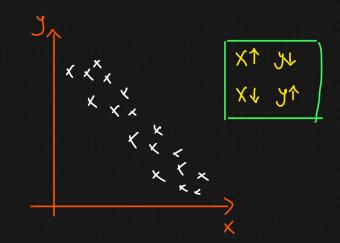
[Ruationship between X And y].

Covariance And Correlation.



17 1X

XV YV



Covariance

$$(ov(x,y) = \mathop{\succeq}_{i=1}^{n} \frac{(x_i - \overline{x})(y_i - \overline{y})}{n-1}$$

n; - Dafa point of n

2 - Sample mean of 2

y: - Darapoints of y

y -> Sample mean of y.

$$Var(x) = \sum_{i=1}^{h} \frac{\left(x_i - \overline{x}\right)^2}{h-1}$$

$$= \sum_{i=1}^{h} \frac{\left(x_i - \overline{x}\right)\left(x_i - \overline{x}\right)}{h-1}$$

Var(x) = Cov(x,x) = Spriod

tre Covarance

X1 y -ve Covanànu

Advantages

O Relationship between X and y

tre or -ve value

Disadvantages

1) (Overignee does not have a Specific

$$\int_{\lambda,y} = \frac{\text{Cov}(x,y)}{\sigma_{x} \cdot \sigma_{y}} \implies -1 + 0.1$$

DATA SCIENCE

