Date:

## (Statistics and Probability) CampusX

I would note the concept that I didn't find in PW-skills pant

to the view below which Is it is observabled to the detailed Relative Inequence: It is the percentage value of the frequency value of a catagonical data set.

Example -

Type	Frieg.	Relative Freq.	= 60
Beach	60	0.3	20
City	40	0.2	28 - 11 . SZEWOS
Adventure	30	1 40015/ Non	n ho di simo i u
Nature	35.	0:175	1
other	15	0.075	the bold of all

Contingency table: When for visualization, you change a column to now Warring HTV adt and 1 of and

now values to column values.

Survived	PClass	
660 86 96	1 20	9
1	2	
	3	

NO 00	Pelay			
Sunvived	1	2	3	
0	42	40	31	
1	49	62	12	

14.3 - 11 6 B This table can be enoughed for categorical-categorical data.

Scatter-plats for numerical - numerical data

Drive: Diete: / /

Pencentile & Represent the pencentage of observations in a dataset that's fall below a particular value. For example, the 75th pencentile is the value below which 75% of the observations in the dataset fall.

How to calculate percentile?

Formula: 
$$PL = \frac{P}{100}(N+1)$$

PL: the desined pencentile value location

N: The total number of observations in the dataset

P: The pencentile rank (expressed as a pencentage)

Example 18 Find the 75th percentile score from the below data 78,82,84,88,91,93,94,96,98,99

Step 1: Sout the data -> 78,82,84,88,91,93,94,96,98,99

$$PL = \frac{75}{0.000} \times (10+1) = \frac{3}{4} \times 11 = 8.25$$

75th percentile value is coming between 8 and 9 position values.

The actual value is 96+0:25 (98-96)

75th pendentile = 96.5

Sub:

Don't Contain

## Example 2:

Data in sorted order -> 78, 82,84, 88, 91, 93, 94, 96, 98,99

Find the percentile of 88 -

7 = numbers of values below the given Value

J= Number of values equal to the given value

n: total number of values in the delaset.

Box: You can see the rideo when you need (sessin 39 - Campucx)

- -> Box Plot visualisation
- -> How it is calculated ?
- -> What the plot describes!

Scatter plat. To show numerical numerical relationship, we can a draw scatter plat.

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Covariance: It is noted properly in the pw-skills part.

## Disadvantage of covariance:

It does not tell us about the strength of the relationship between two variables, since the magnitude of covariance is affected by the scale of the variables.





Connelation:

This technique is noted down on pw-skills part.

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