Pearson Cornelation Coefficient:

This is used from Measure the relationship within Poenticular grange from (-1 to 1).

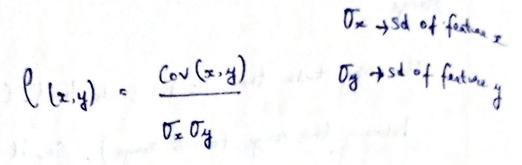
> The Morre towards +1 then say Morre Positively Correlation.

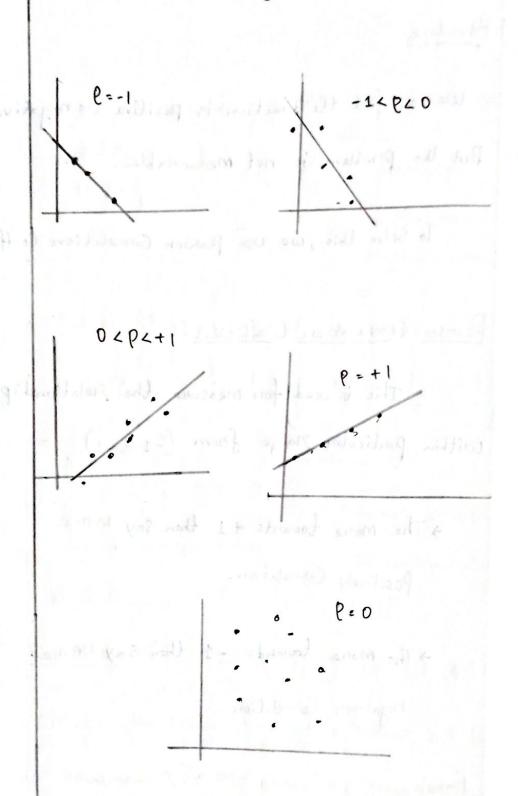
> The Morre towards - 1 then Say Morre

Negatively Correlation.

spoors (x2 sev soil) defined? wolfe to sed

formula,





Does not follow Straight line we say range from -1 LPLO (00) O < P<+1 [Range]

Disadvantage:

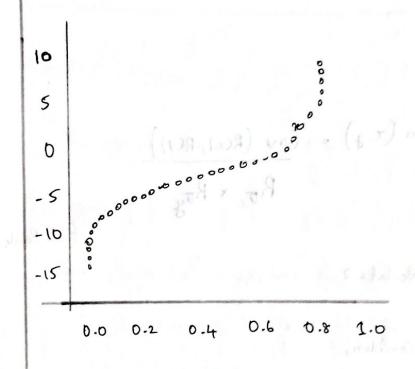
> The Pearson Cornelation Coefficient is only works

Well for Linear properties. Does not fit for non.

Linear properties. So, we jump into Spennan rank

Corpolation.

Spearman's rank Cornelation Coefficient:



In this Scenario,

Spensiman Consideration = 1

Person Consideration = 0.88

Speanman Considered best because, it is non-linear Property. So works well and also show accurate Consideration.

Advantage:

> It is somemore similar to Pearson Correlation,
The difference is it works well for non-linear
Peroperty as well.

It also Calculate the relation accumately. (i.e. one Point overlab with some distance also Calculate. But, Pearson Cannot).

formula,

R -> Rank

How to calculate 2

Y -> weight

Let Consider,

×	У	RCE)	RCy)
170	75	2	2
160	62	3	3 ween english
lso	60 88.	0-400 Jal	64) Hotos
145	55	5	5
180	85	1 100 0	1
→ Height			

Based on the higher value, Rank will be assigned.

The formula only works with R(x), R(y), Rox and Roy. It neglect the Original feature x and Y while Performing.

The main thing of the Speanman rank Correlation is that Capture non-linear properties as well.