$$\sigma = \frac{(ov(x,y))}{std(x).std(y)}$$

Pearson
$$\gamma = \frac{\sum_{i=1}^{h} (x_i - \overline{x}) (y_i - \overline{y})}{\sqrt{\sum_{i=1}^{h} (x_i - \overline{x})^2} \sqrt{\sum_{i=1}^{h} (y_i - \overline{y})^2}}$$

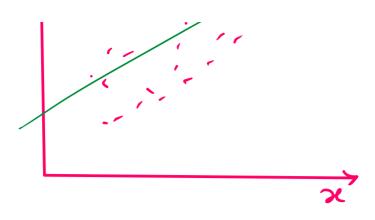
spearman =
$$1 - 6 \overline{Z} \frac{\partial^2}{\partial x^2}$$

corr coeff. $h(n^2-1)$
 $h = no \cdot of rows$
 $\frac{\partial^2}{\partial x^2} = \partial iff betarrank$.

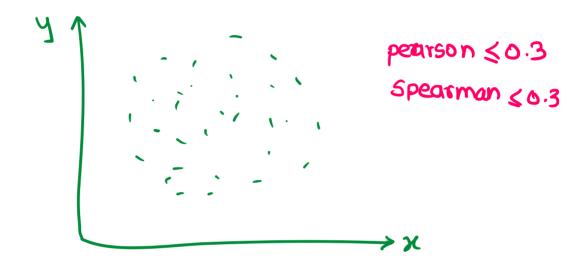
when to use spearman and pearson

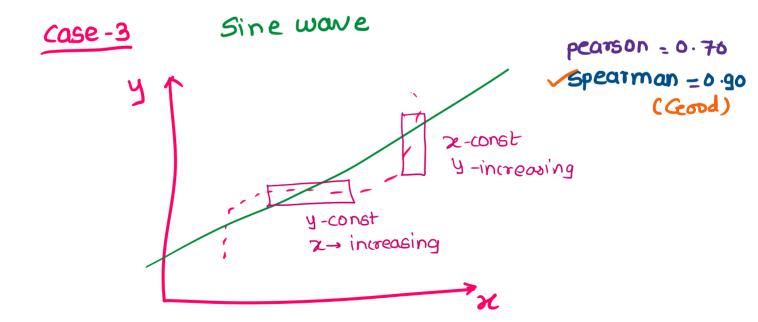
Linear Dota pearson > 0.9

Spearman > 0.9



Case-2 Non Linear Data





case-4 - When butliers in Data

