Correlation between two variables ( Step – Value)  
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1. Spearman’s Correlation

Two variables may be related by a nonlinear relationship, such that the relationship is stronger or weaker across the distribution of the variables.

The spearmanr() SciPy function can be used to calculate the Spearman’s correlation coefficient. In our example, we calculate correlation with spearman function and the result is: **0.235517.**   
This, shows as that the two variables has **not** a strong correlation.   
  
2. Pearsonr Correlation   
  
The Pearson’s correlation coefficient is calculated as the covariance of the two variables divided by the product of the standard deviation of each data sample.

The pearsonr() SciPy function can be used to calculate the Pearson’s correlation coefficient between two data samples with the same length.  
  
The result of the above function is: **0.193508.**  
We can see that the two variables are negative correlated and that the correlation is 0.193508. This suggests a low level of correlation