Bivariate Statistics Exploration

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1 Calculating Mean of X, Y for Datasets

The mean is a commonly used measure of center for a given statistic. To calculate the mean, we can use the following formula: for a given indexed set of values, the mean is written:

$$\bar{x} = \frac{1}{N} \sum_{i \in I} x_i$$

Where N is the length of the data set. In other words, the mean is the sum of each value divided by the number of values for a given parameter.

Calculating these values for each dataset we obtain:

	I		II		III		IV	
Data set	x	y	x	y	x	y	x	y
Mean	9.0	7.5	9.0	7.5	9.0	7.5	9.0	7.5

2 Plots

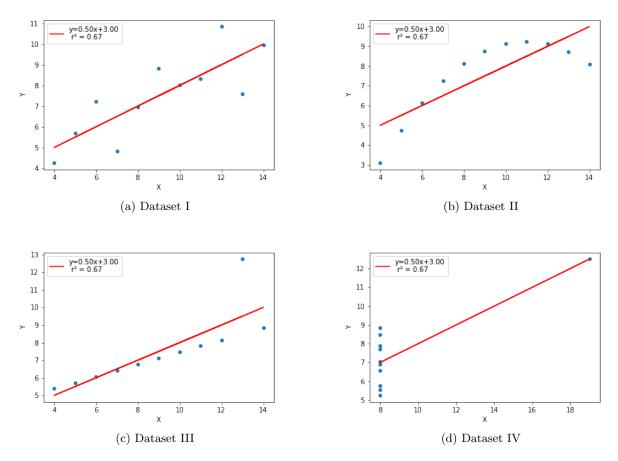


Figure 1: Plot of Datasets I-IV — X against Y with Lin. Reg.