

What is the relationship between correlation and linear regression?

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The relationship between correlation and linear regression is that they both measure the strength and direction of the relationship between two variables. Correlation measures the strength of a linear relationship between two variables, while linear regression uses this information to estimate the equation of the line that best fits the data points. In other words, correlation provides a measure of the strength of the relationship, while linear regression uses this information to make predictions and determine the extent to which one variable can be explained by the other. Additionally, both correlation and linear regression rely on the assumption of a linear relationship between the variables, and their results can be influenced by outliers in the data. Overall, correlation and linear regression are closely related and often used together to analyze the relationship between two variables.

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