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## Regression Analysis For Dummies

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By Alan Anderson. Regression analysis is one of the most important statistical techniques for business applications. It ' s a statistical methodology that helps estimate the strength and direction of the relationship between two or more variables. The analyst may use regression analysis to determine the actual relationship between these variables by looking at a corporation ' s sales and profits over the past several years.

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Linear regression analysis is based on six fundamental assumptions: The dependent and independent variables show a linear relationship between the slope and the intercept. The independent variable is not

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random. The value of the residual (error) is zero. The value of the residual (error) is constant ...

## ~~Regression Analysis—Formulas, Explanation, Examples and ...~~

Regression analysis is a statistical tool used for the investigation of relationships between variables. Usually, the investigator seeks to ascertain the causal effect of one variable upon another — the effect of a price increase upon demand, for example, or the effect of changes in the money supply upon the inflation rate. Regression analysis is used to estimate the strength and the direction of the relationship between two linearly related variables: X and Y. X is the “ independent ...

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SLOPE: Slope of a regression line. The SLOPE function calculates the slope of a regression line using the x- and y-values. The function uses the syntax =SLOPE(known\_y's,known\_x's) An upward slope indicates that the independent, or x, variable positively affects the dependent, or y, variable. In other words, an increase in x produces an increase in y.

## ~~How to Perform a Regression Analysis in Excel—dummies~~

By Deborah J. Rumsey. Statistical researchers often use a linear relationship to predict the (average) numerical value of Y for a given value of X using a straight line (called the regression line). If you know the slope and the y -intercept of that regression line, then you can plug in a value for X and predict the average value for Y.

## ~~Using Linear Regression to Predict an Outcome—dummies~~

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Regression analysis is a statistical technique used to describe relationships among variables. The simplest case to examine is one in which a variable  $Y$ , referred to as the dependent or target variable, may be related to one variable  $X$ , called an independent or explanatory variable, or simply a regressor.

## CHAPTER 1: Basic Concepts of Regression Analysis

The regression analysis creates the single line that best summarizes the distribution of points. Mathematically, the line representing a simple linear regression is expressed through a basic equation:  $Y = a_0 + a_1 X$ . Here  $X$  is hours spent studying per week, the “ independent variable. ”

### ~~Explained: Regression analysis | MIT News | Massachusetts ...~~

Regression analysis is commonly used in research to establish that a correlation exists between variables. But correlation is not the same as causation: a relationship between two variables does not mean one causes the other to happen. Even a line in a simple linear regression that fits the data points well may not guarantee a cause-and-effect relationship.

### ~~What Simple Linear Regression Is and How It Works~~

Regression analysis is the “ go-to method in analytics, ” says Redman. And smart companies use it to make decisions about all sorts of business issues. “ As managers, we want to figure out how we can...

### ~~A Refresher on Regression Analysis~~

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Regression is a parametric technique used to predict continuous (dependent) variable given a set of independent variables. It is parametric in nature because it makes certain assumptions (discussed next) based on the data set. If the data set follows those assumptions, regression gives incredible results.

~~Beginners Guide to Regression Analysis and Plot ...~~

Simple linear regression: Use  $x$  to estimate  $y$ , using a line: Response variable  $y$  quantitative; constant variance across  $x$ , which is quantitative: Multiple regression: Use multiple  $x$  variables ( $x_i, i = 1 \dots k$ ) to estimate  $y$  using a plane:  $y$  is quantitative; normal distribution for each  $x_i$  combination with constant variance: Nonlinear regression

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A regression model in which the dependent variable is quantitative in nature but all the explanatory variables are dummies (qualitative in nature) is called an Analysis of Variance (ANOVA) model.. ANOVA model with one qualitative variable. Suppose we want to run a regression to find out if the average annual salary of public school teachers differs among three geographical regions in Country A ...

~~Dummy variable (statistics) - Wikipedia~~

In statistical modeling, regression analysis is a set of statistical processes for estimating the relationships between a dependent variable and one or more independent variables. The most common form of regression

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analysis is linear regression, in which a researcher finds the line that most closely fits the data according to a specific mathematical criterion. For example, the method of ordinary least squares computes the unique line that minimizes the sum of squared differences between the true

## ~~Regression analysis—Wikipedia~~

Hierarchical regression is a way to show if variables of your interest explain a statistically significant amount of variance in your Dependent Variable (DV) after accounting for all other variables. This is a framework for model comparison rather than a statistical method.

## ~~Hierarchical Linear Regression | University of Virginia...~~

This video explains the process of creating a scatterplot in SPSS and conducting simple linear regression.

## ~~SPSS for Beginners 6: Regression—YouTube~~

Tutorial introducing the idea of linear regression analysis and the least square method. Typically used in a statistics class. Playlist on Linear Regressionh...

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