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<p>to solve regression problems - Solved Example #1 <i>How to solve coefficient of correlation</i> <i>0026 line of regression example(PART -1)</i> Linear Regression - Fun and Easy Machine Learning <i>"Regression - Actual Mean Method Problems</i> <i>0026 Solutions"</i> <i>In Statistics By Dr.Devika Bhatnagar</i></p> <hr/> <p>Linear Regression with Multiple Regressors (FRM Part 1 -</p>	<p>Book 2 - Chapter 8)Regression Analysis Problems And SolutionsObtain regression equation of Y on X and estimate Y when X=55 from the following. Solution: (i) Regression coefficients of Y on X (ii) Regression equation of Y on X. $Y = -51.57 + 0.942(X - 48.29)$ $Y = 0.942X - 45.49 + 51.57 = 0.942X - 45.49 + 51.57$ $Y = 0.942X + 6.08$. The regression equation of Y on X is $Y = 0.942X + 6.08$</p>	<p>Estimation of Y when X= 55. $Y = 0.942(55) + 6.08 = 57.89$ Solved Example Problems for Regression Analysis - Maths Linear regression where the sum of vertical distances $d_1 + d_2 + d_3 + d_4$ between observed and predicted (line and its equation) values is minimized. The least square regression line for the set of n data points is given by the equation of a line in slope intercept</p>
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form: $y = a x + b$. where a and b are given by.

Figure 2. Linear Regression - Problems with Solutions

Regression is a very powerful statistical analysis. It allows you to isolate and understand the effects of individual variables, model curvature and interactions, and make predictions.

Regression analysis offers high flexibility but presents a variety of potential pitfalls. Great power

requires great responsibility!

Five Regression Analysis Tips to Avoid Common Problems

...Often, you can solve the problem by transforming the variables (so that the outliers and influential observations disappear, so that the residuals look normal, so that the residuals have the same variance -- quite often, you can do all this at the same time), by altering the model (for a simpler or

more complex one) or by using another regression (GLS to account for heteroskedasticity and correlated residuals, robust regression to account for remaining influential observations).

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€Solution:

Calculation of Regression equation (i)

Regression equation of X on Y (ii)

Regression

Equation of Y on X. When X is 20, Y will be = -0.25 (20)+44.25 = -5+44.25 = 39.25 (when the price is Rs. 20, the likely demand is 39.25) Example 9.11. Obtain regression equation of Y on X and estimate Y when X=55 from the following. Regression Analysis Problems And Solutions Problem-solving using linear regression has so many applications in business, digital customer

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solve this problem, let's take it step-by-step. Calculate the means; Subtract the means from every value; Multiply and square these subtracted values; Sum these multiplied and squared values
 Problem of Correlation and Regression | Superprof 2. = 9 43206 (622)2=1970 Divide to obtain $m = \frac{782}{1970}$ Now, find the y-intercept: $b = \frac{P_y - m P_x}{n}$
 $\frac{773}{9} - (\frac{0}{40})$

622 9 =113:53 Therefore, the equation of the regression line is $\hat{y} = 0.40x + 113.53$. Even though we found an equation, recall that the correlation between x and y in this example was weak.
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when $X=55$
from the
following.
Solution: (i)
Regression
coefficients of
Y on X (ii)
Regression
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on X. $Y = -51.57$
 $=$
 $0.942(X - 48.29)$
 $Y =$
 $0.942X - 45.49$
 $+ 51.57 = 0.942$
 $X - 45.49 + 51.5$
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2. = 9 43206
(622)2=1970
Divide to

obtain $m = 782.1970$
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 Therefore, the equation of the regression line is $\hat{y} = 0.40x + 113.53$. Even though we found an equation, recall that the correlation between x and y in this example was weak.

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Linear Regression with Multiple Regressors (FRM Part 1

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Multicollinearity occurs when independent variables in a regression model are correlated. This correlation is a problem because independent variables should be independent. If the degree of correlation between variables is high enough, it can cause problems when you fit the model and interpret the results. In this blog post, I'll highlight the problems that multicollineari-

ty can cause, show you how to test your model for it, and highlight some ways to resolve it. *Chapter 9: Correlation and Regression: Solutions* The chief problem is the number of data points, which is bound to be insufficient when the algorithms are implemented by hand. Further, erroneous application of regression analysis can also lead to incorrect results. To remedy the

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a very
powerful
statistical
analysis. It
allows you to
isolate and
understand
the effects of
individual
variables,
model
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analysis offers
high flexibility
but presents a
variety of
potential
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requires great
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Solution
Problem 1. In
order to solve
this problem,
let's take it
step-by-step.
Calculate the
means;
Subtract the
means from
every value;
Multiply and
square these
subtracted
values; Sum
these
multiplied and
squared
values

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