DATAtab
Webapp for data analysis.

Linear Regression

Statistics made easy

Statistical data analysis – online and simple!

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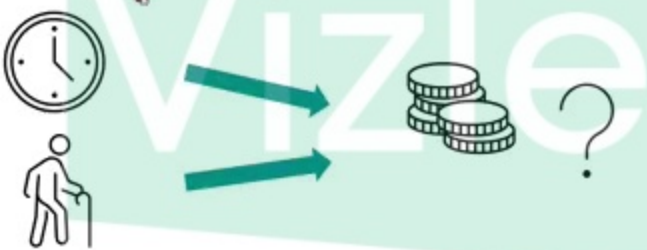
Simple linear regression

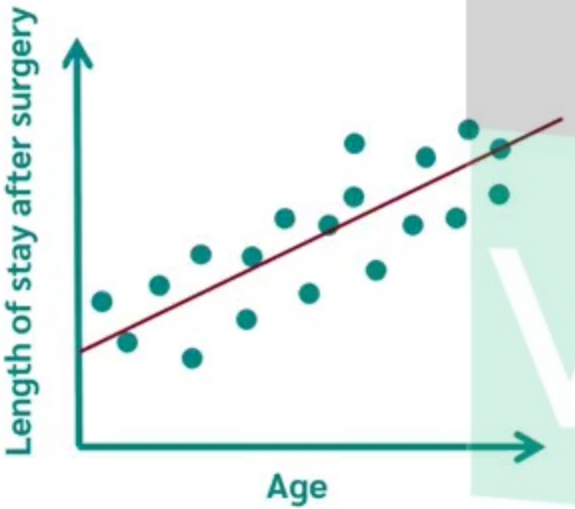
Does **the weekly working time** have an influence on the **hourly salary** of employees?

Multiple linear regression

Do the **weekly working hours** and the **age** of employees have an influence on their **hourly salary**?



Simple Linear Regression



Estimated length of stay

Age

$$\hat{y} = b \cdot x + a$$

$$\hat{y} = 0.14 \cdot x + 1.2$$

$$5.82 = 0.14 \cdot 33 + 1.2$$

Multiple Regression

Simple linear Regression

$$\hat{y} = b \cdot x + a$$

Multiple linear Regression

$$\hat{y} = b_1 \cdot x_1 + b_2 \cdot x_2 + \ldots + b_k \cdot x_k + a$$

Model Summary

$$\hat{y} = b_1 \cdot x_1 + b_2 \cdot x_2 + \ldots + b_k \cdot x_k + a$$

Multiple correlation coefficient R
Measures the relationship/correlation between the dependent variable and the independent variables.

Explained variance R^2
Indicates how much of the variance of the dependent variable can be explained by the independent variables

Model summary

Copy

R	R^2	Adjusted R^2	Standard error of the estimate
0.7	0.49	0.299	551.608

Adjusted R^2
R^2 overestimates the coefficient of determination just when many independent variables are used

Standard estimation error
Indicates by how much the model overestimates the dependent variable on average.

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