regression analysis
The analysis of data (\( \rightarrow \) data set) with the intent of finding a model that can be used to estimate (\( \rightarrow \) estimator) data points that are not contained in the data set under analysis. The model is then used to predict the value of a dependent variable based on the value of an independent variable. The model found by regression analysis can never predict data points with certainty due the irreducible error and the bias-variance trade-off. For a simple and common regression model, see linear regression.