

Logistic Regression Analysis

Binomial (or binary) logistic regression is a form of regression which is used when the dependent variable is dichotomous and the independent variables are of any type. Multinomial logistic regression exists to handle the case of dependent variables with more than two classes. There is only one dependent variable in logistic regression and continuous variables are not used as dependent variables in logistic regression.

Logistic regression can be used to predict a dependent variable on the basis of continuous and/or categorical independent variables and to determine the percent of variance in the dependent variable explained by the independents; to rank the relative importance of independents; to assess interaction effects; and to understand the impact of covariate control variables.