

# Analyzing Low Birth Weights using Logistic Regression

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**Abstract:** Logistic Regression is modeling data when the dependent variable is categorical. When the data is binary in nature (success or failure) then the model is a Binary Logistic model. This research highlights the theory of Logistic Regression pertaining to model creation, parameter estimation, hypothesis testing, and more. In an applied analysis, Logistic Regression is used to develop a model identifying the risk factors causing low weight births of infants which can severely impact their health.