Data Mining: Methods and Models

By Daniel T. Larose

Wiley India Pvt. Ltd, 2006. Softcover. Book Condition: New. We are surrounded by data, numerical and otherwise, which must be analyzed and processed to convert it into information that informs, instructs, answers, or otherwise aids understanding and decision-making. Due to the ever-increasing complexity and size of today`s data sets a new term, data mining, was created to describe the indirect, automatic data analysis techniques that utilize more complex and sophisticated tools than those which analysts used in the past to do mere data analysis. Preface Dimension Reduction Methods Need for Dimension Reduction in Data Mining Principal Components Analysis Factor Analysis User-Defined Composites Regression Modeling Example of Simple Linear Regression Least-Squares Estimates Coefficient or Determination Correlation Coefficient The ANOVA Table Outliers, High Leverage Points, and Influential Observations The Regression Model Inference in Regression Verifying the Regression Assumptions An Example: The Baseball Data Set An Example: The California Data Set Transformations to Achieve Linearity Multiple Regression and Model Building An Example of Multiple Regression The Multiple Regression Model Inference in Multiple Regression Regression with Categorical Predictors Multicollinearity Variable Selection Methods An Application of Variable Selection Methods Mallows? C p Statistic Variable Selection Criteria Using the Principal Components as Predictors in Multiple Regression...

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