

Statistics with MATLAB. Regression (Paperback)



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Reviews

This book is great. I could possibly comprehend everything using this published e book. I am easily could possibly get a enjoyment of reading a published pdf.

(Deanna Rath 1)

STATISTICS WITH MATLAB. REGRESSION (PAPERBACK)



Createspace Independent Publishing Platform, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.This book develops the Regression techniques: Linear Regression Model, Learner techniques (linear regression models, regression trees, Gaussian process regression models, Support Vector Machines, and ensembles of regression trees), Neural Networks Regression, Generalized Linear Models (GLM) and Nonlinear Regression. The most important content is the following: -Parametric Regression Analysis -Linear Regression -Fit Model to Data -Examine Quality and Adjust the Fitted Model -Predict or Simulate Responses to New Data -Share Fitted Models -Linear Regression Workflow -Linear Regression with Interaction Effects -Interpret Linear Regression Results -Cook s Distance -Coefficient Standard Errors and Confidence Intervals -Coefficient Covariance and Standard Errors -Coefficient Confidence Intervals -Coefficient of Determination (R-Squared) -Durbin-Watson Test -F-statistic -Assess Fit of Model Using F-statistic -t-statistic -Assess Significance of Regression Coefficients Using t-statistic -Hat Matrix and Leverage -Residuals -Assess Model Assumptions Using Residuals -Summary of Output and Diagnostic Statistics -Train Regression Models in Regression Learner App -Automated Regression Model Training -Manual Regression Model Training -Parallel Regression Model Training -Compare and Improve Regression Models -Select Data and Validation for Regression Problem -Linear Regression Models -Regression Trees -Support Vector Machines -Gaussian Process Regression Models -Ensembles of Trees -Feature Selection -Feature Transformation -Assess Model Performance -Check Performance in History List -Evaluate Model Using Residuals Plot -Export Regression Model to Predict New Data -Train Regression Trees Using Regression Learner App -Mathematical Formulation of SVM Regression -Solving the SVM Regression Optimization Problem -Fit Regression Models with a Neural Network -Multinomial Models for Nominal Responses -Multinomial Models for Ordinal Responses -Hierarchical Multinomial Models -Generalized Linear Models -Lasso Regularization of Generalized Linear Models -Regularize Poisson Regression -Regularize Logistic Regression -Regularize Wide Data in Parallel -Generalized Linear Mixed-Effects Models -Fit a Generalized Linear Mixed-Effects Model -Regression with Neural Networks -Nonlinear Regression -Fit..



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