

Max Kuhn · Kjell Johnson

Applied Predictive Modeling

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Didier Musso



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Applied Predictive Modeling Steven Taylor,2020-07-14 Applied Predictive Modeling Predictive modeling uses statistics in order to predict outcomes However predictive modeling can be applied to future and to any other kind of unknown event regardless of when it happened When it comes to the applications of predictive modeling techniques are used in various fields including algorithmic trading uplift modeling archaeology health

care customer relationship management and many others This book covers the predictive modeling process with fundamental steps of the process data preprocessing data splitting and crucial steps of model tuning and improving model performance Further the book will introduce you to the most common classification and regression techniques including logistic regression which is widely used when it comes to the finding the probability of event success or event failure You will get to know the common predictive modeling techniques as well such as stepwise regression polynomial regression and ridge regression which will help you when you are dealing with the data that suffers from very common multicollinearity where independent variables are highly correlated The text then provides fundamental steps to effective predictive modeling In the second chapter you will learn how to build your own predictive model with logistic regression and Python You will find data sets as well as corresponding codes One of the crucial predictive modeling steps is model tuning so you will learn some common techniques used in order to improve your model performance You will get to know how to tune the parameters commonly used to increase the overall predictive power Predictive modeling comes with a few obstacles and challenges like class imbalance Imbalanced classes commonly put the accuracy of the model out of business but you will learn how to properly handle class imbalance which will significantly improve the accuracy of your model The book is multi purpose focused on to predictive modeling process and predictive modeling techniques so it will be of great help for those who are interested in predictive modeling techniques and applications So it is the right time to simplify the analysis boost productivity as well as save time The book will be your companion on your journey towards highly accurate predictive models What you will learn in Applied Predictive Modeling Most common predictive modeling techniques Types of regression models The overall predictive modeling process Fundamental steps to effective and highly accurate predictive modeling How to build predictive model with logistic regression with code listings How to build predictive model using Python How to enhance your model performance Parameters for increasing the overall predictive power How to handle class imbalance Common causes of poor model performance Get this book now and learn more about Applied Predictive Modeling *Applied Predictive Modeling* Max Kuhn,2016 This is a book on data analysis with a specific focus on the practice of predictive modeling which is associated with machine learning pattern recognition and data mining The practice of predictive modeling defines the process of developing a model in a way that we can understand and quantify the model's prediction accuracy on future

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N. D. Lewis, 2015-10-21 About This Book This jam packed book takes you under the hood with step by step instructions using the popular and free R predictive analytics package It provides numerous examples illustrations and exclusive use of real data to help you leverage the power of predictive analytics A book for every data analyst student and applied researcher Here is what it can do for you

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how to measure and assess its performance using real world datasets How do you train models that can handle really large datasets This book will also show you just that Finally you will tackle the really important topic of deep learning by implementing applications on word embedding and recurrent neural networks By the end of this book you will have explored and tested the most popular modeling techniques in use on real world datasets and mastered a diverse range of techniques in predictive analytics using R Style and approach This book takes a step by step approach in explaining the intermediate to advanced concepts in predictive analytics Every concept is explained in depth supplemented with practical examples applicable in a real world setting

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