Predictive Modeling for Imbalanced Big Data in SAS Enterprise Miner and R

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ABSTRACT

There have been a variety of predictive models capable of handling binary targets, ranging from traditional logistic regression to modern neural networks. However, when the target variable represents a rare event, these models might not be appropriate as they assume that the distribution in the target variable is balanced. In this article, the impact of multiple resampling methods on conventional predictive models is studied. These resampling techniques include the methods of oversampling of the rare events, undersampling of the common events in the data, and synthetic minority over-sampling technique (SMOTE). The predictive models of decision trees, logistic regression and rule induction are applied with SAS Enterprise Miner (EM) software to the revised data. The studied data set is of home mortgage applications which includes a target variable with an occurrence rate of the rare event being 0.8%. The authors varied the percentage of the rare event from the original of 0.8% up to 50% and monitored the associated performances of the three predictive models to see which one worked the best.

KEYWORDS

Data Mining, Imbalanced Data, Oversampling, Predictive Modeling, Rare Events, SAS Enterprise Miner, Synthetic Minority Over-Sampling Technique (SMOTE), Undersampling

1. INTRODUCTION

In binary classification, when the proportion of one class in the target variable is significantly smaller than the other class (imbalanced data), one faces the problem of classifying a rare event, or imbalanced classification. Traditional classification modeling techniques such as logistic regression and decision trees generally work quite well with a balanced data. However, with a rare event variable, when the data set is very large, and the event of interest is very small, most of these classification methods typically fail to detect the rare event. This can be particularly true when the percentage of the rare event is extremely small, as in the example presented here, where the rare event occurs in less than 1% of the observations. In this situation, all observations are predicted as being in the group consisting of the more dominant or common event.

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Ian Pickup

Predictive Modeling Sas Enterprise 650577:

Predictive Modeling with SAS Enterprise Miner Kattamuri S. Sarma, 2017-07-20 A step by step guide to predictive modeling Kattamuri Sarma's Predictive Modeling with SAS Enterprise Miner Practical Solutions for Business Applications Third Edition will show you how to develop and test predictive models quickly using SAS Enterprise Miner Using realistic data the book explains complex methods in a simple and practical way to readers from different backgrounds and industries Incorporating the latest version of Enterprise Miner this third edition also expands the section on time series Written for business analysts data scientists statisticians students predictive modelers and data miners this comprehensive text provides examples that will strengthen your understanding of the essential concepts and methods of predictive modeling Topics covered include logistic regression regression decision trees neural networks variable clustering observation clustering data imputation binning data exploration variable selection variable transformation and much more including analysis of textual data Develop predictive models quickly learn how to test numerous models and compare the results gain an in depth understanding of predictive models and multivariate methods and discover how to do in depth analysis Do it all with Predictive Modeling with SAS Enterprise Miner Advanced Predictive Modeling Using SAS Enterprise Miner SAS Business Analytics Using SAS Enterprise Guide and SAS Enterprise Miner Olivia Parr-Rud, 2014-10 Institute.2014 This tutorial for data analysts new to SAS Enterprise Guide and SAS Enterprise Miner provides valuable experience using powerful statistical software to complete the kinds of business analytics common to most industries This beginnner's guide with clear illustrated step by step instructions will lead you through examples based on business case studies You will formulate the business objective manage the data and perform analyses that you can use to optimize marketing risk and customer relationship management as well as business processes and human resources Topics include descriptive analysis predictive modeling and analytics customer segmentation market analysis share of wallet analysis penetration analysis and **Unknown MIR Title** SAS Publishing,2000 business intelligence Predictive Modeling with SAS Enterprise Miner Kattamuri S. Sarma, 2013-12 Learn the theory behind and methods for predictive modeling using SAS Enterprise Miner Learn how to produce predictive models and prepare presentation quality graphics in record time with Predictive Modeling with SAS Enterprise Miner Practical Solutions for Business Applications Second Edition If you are a graduate student researcher or statistician interested in predictive modeling a data mining expert who wants to learn SAS Enterprise Miner or a business analyst looking for an introduction to predictive modeling using SAS Enterprise Miner you ll be able to develop predictive models guickly and effectively using the theory and examples presented in this book Author Kattamuri Sarma offers the theory behind programming steps for and examples of predictive modeling with SAS Enterprise Miner along with exercises at the end of each chapter You ll gain a comprehensive awareness of how to find solutions for your business needs This second edition features expanded coverage of the SAS Enterprise Miner nodes now including File Import Time Series Variable

Clustering Cluster Interactive Binning Principal Components AutoNeural DMNeural Dmine Regression Gradient Boosting Ensemble and Text Mining Develop predictive models quickly learn how to test numerous models and compare the results gain an in depth understanding of predictive models and multivariate methods and discover how to do in depth analysis Do it all with Predictive Modeling with SAS Enterprise Miner This book is part of the SAS Press program Modeling Using SAS Enterprise Miner Randall Matignon, 2005-08 This book is designed in making statisticians researchers and programmers aware of the awesome new product now available in SAS called Enterprise Miner The book will also make readers get familiar with the neural network forecasting methodology in statistics. One of the goals to this book is making the powerful new SAS module called Enterprise Miner easy for you to use with step by step instructions in creating a Enterprise Miner process flow diagram in preparation to data mining analysis and neural network forecast modeling Topics discussed in this book An overview to traditional regression modeling An overview to neural network modeling Numerical examples of various neural network designs and optimization techniques An overview to the powerful SAS product called Enterprise Miner An overview to the SAS neural network modeling procedure called PROC NEURAL Designing a SAS Enterprise Miner process flow diagram to perform neural network forecast modeling and traditional regression modeling with an explanation to the various configuration settings to the Enterprise Miner nodes used in the analysis Comparing neural network forecast modeling estimates with traditional modeling estimates based on various examples from SAS manuals and literature with an added overview to the various modeling designs and a brief explanation to the SAS modeling procedures option statements and corresponding SAS output listings Data Preparation for Analytics Using SAS Gerhard Svolba, 2006-11-01 Text addresses such tasks as viewing analytic data preparation in the context of its business environment identifying the specifics of predictive modeling for data mart creation understanding the concepts and considerations of data preparation for time series analysis and using SAS procedures for scoring **Big Data Analytics with SAS** David Pope, 2017-11-23 Leverage the capabilities of SAS to process and analyze Big Data About This Book Combine SAS with platforms such as Hadoop SAP HANA and Cloud Foundry based platforms for effecient Big Data analytics Learn how to use the web browser based SAS Studio and iPython Jupyter Notebook interfaces with SAS Practical real world examples on predictive modeling forecasting optimizing and reporting your Big Data analysis with SAS Who This Book Is For SAS professionals and data analysts who wish to perform analytics on Big Data using SAS to gain actionable insights will find this book to be very useful If you are a data science professional looking to perform large scale analytics with SAS this book will also help you A basic understanding of SAS will be helpful but is not mandatory What You Will Learn Configure a free version of SAS in order do hands on exercises dealing with data management analysis and reporting Understand the basic concepts of the SAS language which consists of the data step for data preparation and procedures or PROCs for analysis Make use of the web browser based SAS Studio and iPython Jupyter Notebook interfaces for coding in the SAS DS2 and FedSQL programming languages Understand how the

DS2 programming language plays an important role in Big Data preparation and analysis using SAS Integrate and work efficiently with Big Data platforms like Hadoop SAP HANA and cloud foundry based systems In Detail SAS has been recognized by Money Magazine and Payscale as one of the top business skills to learn in order to advance one s career Through innovative data management analytics and business intelligence software and services SAS helps customers solve their business problems by allowing them to make better decisions faster This book introduces the reader to the SAS and how they can use SAS to perform efficient analysis on any size data including Big Data The reader will learn how to prepare data for analysis perform predictive forecasting and optimization analysis and then deploy or report on the results of these analyses While performing the coding examples within this book the reader will learn how to use the web browser based SAS Studio and iPython Jupyter Notebook interfaces for working with SAS Finally the reader will learn how SAS s architecture is engineered and designed to scale up and or out and be combined with the open source offerings such as Hadoop Python and R By the end of this book you will be able to clearly understand how you can efficiently analyze Big Data using SAS Style and approach The book starts off by introducing the reader to SAS and the SAS programming language which provides data management analytical and reporting capabilities Most chapters include hands on examples which highlights how SAS provides The Power to Know The reader will learn that if they are looking to perform large scale data analysis that SAS provides an open platform engineered and designed to scale both up and out which allows the power of SAS to combine with open source offerings such as Hadoop Python and R **Getting Started with SAS Enterprise Miner for Machine Learning** Jeff Thompson, 2018 SAS Enterprise Miner is SAS s premier tool for data mining and predictive modeling This course introduces Enterprise Miner while demonstrating two common applications segmentation and predictive modeling It starts with a brief overview of the software and then covers segmentation and predictive modeling using a case study approach based on real world data Upon completing the course learners will have a basic working knowledge of how to use Enterprise Miner to perform data mining and machine learning tasks Participants should have a quantitative background and ideally some basic understanding of predictive models including regression Resource description page **Predictive** Modeling with SAS Enterprise Miner Kattamuri S. Sarma, 2017 Written for business analysts data scientists statisticians students predictive modelers and data miners this comprehensive text provides examples that will strengthen your understanding of the essential concepts and methods of predictive modeling Data Quality for Analytics Using SAS Gerhard Svolba, 2012-04-01 Analytics offers many capabilities and options to measure and improve data quality and SAS is perfectly suited to these tasks Gerhard Svolba's Data Quality for Analytics Using SAS focuses on selecting the right data sources and ensuring data quantity relevancy and completeness The book is made up of three parts The first part which is conceptual defines data quality and contains text definitions explanations and examples The second part shows how the data quality status can be profiled and the ways that data quality can be improved with analytical methods The final part details

the consequences of poor data quality for predictive modeling and time series forecasting With this book you will learn how you can use SAS to perform advanced profiling of data quality status and how SAS can help improve your data quality This book is part of the SAS Press program SAS Enterprise Miner Exercise and Assignment Handbook for Higher **Education** Varol Onur Kayhan, This handbook is written for students in higher education Instructors teaching predictive analytics courses can assign this handbook to their students to expose them to predictive analytics techniques using SAS Enterprise Miner The handbook is developed using SAS Enterprise Miner version 12 1 but it should apply to other versions with little to no changes This handbook does not require students to have any previous knowledge of SAS Enterprise Miner It walks students through different predictive analytics techniques using step by step by instructions Even though the contents of this handbook can be completed by anyone who has access to SAS Enterprise Miner knowledge of predictive analytics concepts is essential for this handbook to be helpful Also this handbook is not a substitute for any lecture or textbook It is best if this handbook is used in parallel to lectures Applied Analytics Using SAS® Enterprise MinerTM SAS SAS Enterprise Miner Exercise and Assignment Workbook Varol Onur Kayhan, Visit http sas book Institute,2011 com to download the data sets used in this workbook This workbook is written for students in higher education Instructors teaching predictive analytics courses can assign this workbook to their students to expose them to predictive analytics techniques using SAS Enterprise Miner The workbook is developed using SAS Enterprise Miner 14 3 but it should apply to other versions with little to no changes This workbook does not require students to have any previous knowledge of SAS Enterprise Miner It walks students through the predictive analytics process using step by step by instructions Even though the contents of this workbook can be completed by anyone who has access to SAS Enterprise Miner knowledge of predictive analytics concepts is essential Also this workbook is not a substitute for any lecture or textbook It is best if this workbook is used in parallel to lectures SAS Enterprise Miner Exercise and Assignment Book Varol Onur Kayhan, 2020-04-07 This book is written for students in higher education Instructors teaching predictive analytics courses can assign this book to their students to expose them to predictive analytics techniques using SAS Enterprise Miner The book is developed using SAS Enterprise Miner 14 3 but it should apply to other versions with little to no changes This book does not require students to have any previous knowledge of SAS Enterprise Miner It walks students through the predictive analytics process using step by step by instructions Even though the contents of this book can be completed by anyone who has access to SAS Enterprise Miner knowledge of predictive analytics concepts is essential Also this book is not a substitute for any lecture or textbook It is best if this book is used in parallel to lectures Time Series Analysis Using SAS Enterprise Guide Timina Liu, Shuangzhe Liu, Lei Shi, 2020-02-19 This is the first book to present time series analysis using the SAS Enterprise Guide software It includes some starting background and theory to various time series analysis techniques and demonstrates the data analysis process and the final results via step by step extensive illustrations of the SAS Enterprise Guide software This

book is a practical guide to time series analyses in SAS Enterprise Guide and is valuable resource that benefits a wide variety of sectors
Data Analysis Using SAS Enterprise Guide Lawrence S. Meyers, Glenn Gamst, A. J. Guarino, 2009-08-17 This book presents the basic procedures for utilizing SAS Enterprise Guide to analyze statistical data SAS Enterprise Guide is a graphical user interface point and click to the main SAS application Each chapter contains a brief conceptual overview and then guides the reader through concrete step by step examples to complete the analyses The eleven sections of the book cover a wide range of statistical procedures including descriptive statistics correlation and simple regression t tests one way chi square data transformations multiple regression analysis of variance analysis of covariance multivariate analysis of variance factor analysis and canonical correlation analysis Designed to be used either as a stand alone resource or as an accompaniment to a statistics course the book offers a smooth path to statistical analysis with SAS Enterprise Guide for advanced undergraduate and beginning graduate students as well as professionals in psychology education business health social work sociology and many other fields
Unknown MIR Title Jim Georges, SAS Publishing, SAS Institute, 1999-01

SAS Enterprise Miner Exercise and Assignment Handbook for Higher Education Varol Kayhan, 2019-01-16 This handbook is written for students in higher education Instructors teaching predictive analytics courses can assign this handbook to their students to expose them to predictive analytics techniques using SAS Enterprise Miner The handbook is developed using SAS Enterprise Miner version 12 1 but it should apply to other versions with little to no changes This handbook does not require students to have any previous knowledge of SAS Enterprise Miner It walks students through different predictive analytics techniques using step by step by instructions Even though the contents of this handbook can be completed by anyone who has access to SAS Enterprise Miner knowledge of predictive analytics concepts is essential for this handbook to be helpful Also this handbook is not a substitute for any lecture or textbook It is best if this handbook is used in parallel to lectures

First Steps in Data Mining with SAS Enterprise Miner Martha Abell,2014-09-06 SAS Enterprise Miner streamlines the data mining process to create highly accurate predictive and descriptive models based on analysis of vast amounts of data from across an enterprise Data mining is applicable in a variety of industries and provides methodologies for such diverse business problems as fraud detection householding customer retention and attrition database marketing market segmentation risk analysis affinity analysis customer satisfaction bankruptcy prediction and portfolio analysis In SAS Enterprise Miner the data mining process has the following SEMMA steps Sample the data by creating one or more data sets The sample should be large enough to contain significant information yet small enough to process This step includes the use of data preparation tools for data import merge append and filter as well as statistical sampling techniques Explore the data by searching for relationships trends and anomalies in order to gain understanding and ideas This step includes the use of tools for statistical reporting and graphical exploration variable selection methods and variable clustering Modify the data by creating selecting and transforming the variables to focus the model selection process This step includes the use of tools for

defining transformations missing value handling value recoding and interactive binning Model the data by using the analytical tools to train a statistical or machine learning model to reliably predict a desired outcome This step includes the use of techniques such as linear and logistic regression decision trees neural networks partial least squares LARS and LASSO nearest neighbor and importing models defined by other users or even outside SAS Enterprise Miner Assess the data by evaluating the usefulness and reliability of the findings from the data mining process This step includes the use of tools for comparing models and computing new fit statistics cutoff analysis decision support report generation and score code management You might or might not include all of the SEMMA steps in an analysis and it might be necessary to repeat one or more of the steps several times before you are satisfied with the results After you have completed the SEMMA steps you can apply a scoring formula from one or more champion models to new data that might or might not contain the target variable Scoring new data that is not available at the time of model training is the goal of most data mining problems Furthermore advanced visualization tools enable you to quickly and easily examine large amounts of data in multidimensional histograms and to graphically compare modeling results

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