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Modeling Fractional Outcomes with GLSTM

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Abstract

The generalized GLS (GLS) family (with Gaussian distributional assumption) has been the top choice to model fractional outcomes in many business problems. However, it is commonly found in business literature that a regression exhibits in the (0, 1) range. In this paper, several existing techniques for fractional outcomes with their implementations in R/RN proved to be flawed through a case study exercise in modeling fractional average sales of businesses. The purpose of this paper is to provide a relatively comprehensive survey of how to model fractional outcomes in the RAN and (non)linear and (non)normal distributions.

Keywords:

Fractional outcomes, Total model, GLS (Gaussian total Squared) regression, Fractional (logit) model, Beta regression, Dirichlet regression, Poisson models.

1. Introduction

In the financial services industry, we often observed business outcomes in model fractional outcomes in the range of (0, 1). For instance, at the end of an credit line, LCR (Loan Loss Ratio (Default)) measures the proportion of losses not recovered from a default borrower during the collection process, which is observed in the closed interval (0, 1). Another example is the average fractional average sales (revenues) for the long term debt as a function of the period for both the long term debt and the equity.

Although several research in statistical models for fractional outcomes have been published during the past years, there is still no general agreement on either the distributional assumption or the modeling practice. (a) Considering the statistical model using a binomial sample GLS regression with Gaussian distributional assumption has remained the most popular method to model fractional outcomes due to the simplicity. However, the agreement with GLS regression suffers from a couple of important flaws: First and the most important of all, fractional outcomes in the (0, 1) interval are not defined on the whole real line and therefore shouldn't be considered normally distributed. Moreover, a statistical counterexample of fractional outcomes is that the observed is not independent of the mean. For instance, the average return on the most appreciated commodity prices of (0, 1), which is trading, has a form of $\frac{1}{1+e^{-x}}$.

Modeling Fractional Outcomes With Sas

Emilie Sanchez



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Adaptive Regression for Modeling Nonlinear Relationships George J. Knafl, Kai Ding, 2016-09-20 This book presents methods for investigating whether relationships are linear or nonlinear and for adaptively fitting appropriate models when they are nonlinear Data analysts will learn how to incorporate nonlinearity in one or more predictor variables into regression models for different types of outcome variables Such nonlinear dependence is often not considered in applied research yet nonlinear relationships are common and so need to be addressed A standard linear analysis can produce misleading conclusions while a nonlinear analysis can provide novel insights into data not otherwise possible A variety of examples of the benefits of modeling nonlinear relationships are presented throughout the book Methods are covered using what are called fractional polynomials based on real valued power transformations of primary predictor variables combined with model selection based on likelihood cross validation The book covers how to formulate and conduct such adaptive fractional polynomial modeling in the standard logistic and Poisson regression contexts with continuous discrete and counts outcomes respectively either univariate or multivariate The book also provides a comparison of adaptive modeling to generalized additive modeling GAM and multiple adaptive regression splines MARS for univariate outcomes The authors have created customized SAS macros for use in conducting adaptive regression modeling These macros and code for conducting the analyses discussed in the book are available through the first author's website and online via the book's Springer website Detailed descriptions of how to use these macros and interpret their output appear throughout the book These methods can be implemented using other programs

Statistical and Machine-Learning Data Mining: Bruce Ratner, 2017-07-12 Interest in predictive analytics of big data has grown exponentially in the four years since the publication of *Statistical and Machine Learning Data Mining Techniques for Better Predictive Modeling and Analysis of Big Data* Second Edition In the third edition of this bestseller the author has completely revised reorganized and repositioned the original chapters and produced 13 new chapters of creative and useful machine learning data mining techniques In sum the 43 chapters of simple yet insightful quantitative techniques make this book unique in the field of data mining literature What is new in the Third Edition The current chapters have been completely rewritten The core content has been extended with strategies and methods for problems drawn from the top predictive analytics conference and statistical modeling workshops Adds thirteen new chapters including coverage of data science and its rise market share estimation share of wallet modeling without survey data latent market segmentation statistical regression modeling that deals with incomplete data decile analysis assessment in terms of the predictive power of the data and a user friendly version of text mining not requiring an advanced background in natural language processing NLP Includes SAS subroutines which can be easily converted to other languages As in the previous edition this book offers detailed background discussion and illustration of specific methods for solving the most commonly experienced problems in predictive modeling and analysis of big data The author addresses each

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