

Chapter 9

Simple Linear Regression

An analysis appropriate for a quantitative outcome and a single quantitative explanatory variable.

9.1 The model behind linear regression

When we are examining the relationship between a quantitative outcome and a single quantitative explanatory variable, simple linear regression is the most commonly considered analysis method. (The “simple” part tells us we are only considering a single explanatory variable.) In linear regression we usually have many different values of the explanatory variable, and we usually assume that values between the observed values of the explanatory variables are also possible values of the explanatory variable. We postulate a linear relationship between the population means of the outcome and the value of the explanatory variable. If we let Y be some outcome, and x be some explanatory variable, then we can express the structural model using the equation

$$E(Y|x) = \beta_0 + \beta_1 x$$

where $E(Y)$, which is read “expected value of”, indicates a population mean; $Y|x$, which is read “ Y given x ”, indicates that we are looking at the possible values of Y when x is restricted to some single value; β_0 , read “beta zero”, is the intercept parameter; and β_1 , read “beta one”, is the slope parameter. A constant beta for any parameter or parameter estimate used in an equation for predicting Y from

Chapter 9 Simple Linear Regression Cmu Statistics

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Multimodal Analytics for Next-Generation Big Data Technologies and Applications Kah Phooi Seng, Li-minn Ang, Alan Wee-Chung Liew, Junbin Gao, 2019-07-18 This edited book will serve as a source of reference for technologies and applications for multimodality data analytics in big data environments After an introduction the editors organize the book into four main parts on sentiment affect and emotion analytics for big multimodal data unsupervised learning strategies for

big multimodal data supervised learning strategies for big multimodal data and multimodal big data processing and applications The book will be of value to researchers professionals and students in engineering and computer science particularly those engaged with image and speech processing multimodal information processing data science and artificial intelligence [Introduction to Machine Learning with Applications in Information Security](#) Mark Stamp,2017-09-22

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Mathematical Reviews ,2004 **Journal of Quality Technology** ,1995 **Ninth IEEE International Conference on Computer Vision** ,2003 ICCV 2003 includes 43 full papers covering the latest research and progress in all areas of vision The proceedings tackles necessary topics such as image representation compression and coding image segmentation object recognition active vision 2D and 3D vision sensing and texture color and motion analysis *Proceedings* ,2003 [Logistic Regression](#) David G. Kleinbaum,Mitchel Klein,2010-06-14 This is the third edition of this text on logistic regression methods originally published in 1994 with its second edition published in 2002 As in the first two editions each chapter contains a presentation of its topic in lecture book format together with objectives an outline key formulae practice exercises and a test The lecture book has a sequence of illustrations formulae or summary statements in the left column of each page and a script i e

text in the right column This format allows you to read the script in conjunction with the illustrations and formulae that highlight the main points formulae or examples being presented This third edition has expanded the second edition by adding three new chapters and a modified computer appendix We have also expanded our overview of modeling strategy guidelines in Chap 6 to consider causal diagrams The three new chapters are as follows Chapter 8 Additional Modeling Strategy Issues Chapter 9 Assessing Goodness of Fit for Logistic Regression Chapter 10 Assessing Discriminatory Performance of a Binary Logistic Model ROC Curves In adding these three chapters we have moved Chaps 8 through 13 from the second edition to follow the new chapters so that these previous chapters have been renumbered as Chaps 11 16 in this third edition

Multivariate Reduced-Rank Regression Gregory C. Reinsel, Raja P. Velu, Kun Chen, 2022-11-30 This book provides an account of multivariate reduced rank regression a tool of multivariate analysis that enjoys a broad array of applications In addition to a historical review of the topic its connection to other widely used statistical methods such as multivariate analysis of variance MANOVA discriminant analysis principal components canonical correlation analysis and errors in variables models is also discussed This new edition incorporates Big Data methodology and its applications as well as high dimensional reduced rank regression generalized reduced rank regression with complex data and sparse and low rank regression methods Each chapter contains developments of basic theoretical results as well as details on computational procedures illustrated with numerical examples drawn from disciplines such as biochemistry genetics marketing and finance This book is designed for advanced students practitioners and researchers who may deal with moderate and high dimensional multivariate data Because regression is one of the most popular statistical methods the multivariate regression analysis tools described should provide a natural way of looking at large both cross sectional and chronological data sets This book can be assigned in seminar type courses taken by advanced graduate students in statistics machine learning econometrics business and engineering

Quasi-Least Squares Regression Justine Shults, Joseph M. Hilbe, 2014-01-28 Drawing on the authors substantial expertise in modeling longitudinal and clustered data Quasi Least Squares Regression provides a thorough treatment of quasi least squares QLS regression a computational approach for the estimation of correlation parameters within the framework of generalized estimating equations GEEs The authors present a detailed evaluation of QLS methodology demonstrating the advantages of QLS in comparison with alternative methods They describe how QLS can be used to extend the application of the traditional GEE approach to the analysis of unequally spaced longitudinal data familial data and data with multiple sources of correlation In some settings QLS also allows for improved analysis with an unstructured correlation matrix Special focus is given to goodness of fit analysis as well as new strategies for selecting the appropriate working correlation structure for QLS and GEE A chapter on longitudinal binary data tackles recent issues raised in the statistical literature regarding the appropriateness of semi parametric methods such as GEE and QLS for the analysis of binary data this chapter includes a comparison with the first order Markov maximum likelihood

MARK1ML approach for binary data Examples throughout the book demonstrate each topic of discussion In particular a fully worked out example leads readers from model building and interpretation to the planning stages for a future study including sample size calculations The code provided enables readers to replicate many of the examples in Stata often with corresponding R SAS or MATLAB code offered in the text or on the book s website

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