

Doing Bayesian Data Analysis A Tutorial With R And Bugs

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one of the strengths of this book is the author s ability to motivate the use of bayesian methods through simple yet effective examples katie st clair maa reviews

doing bayesian data analysis a tutorial with r jags and stan second edition provides an accessible approach for conducting bayesian data analysis as material is explained clearly with concrete examples included are step by step instructions on how to carry out bayesian data analyses in the popular and free software r and winbugs as well as new programs in jags and stan the new programs are designed to be much easier to use than the scripts in the first edition in particular there are now compact high level scripts that make it easy to run the programs on your own data sets the book is divided into three parts and begins with the basics models probability bayes rule and the r programming language the discussion then moves to the fundamentals applied to inferring a binomial probability before concluding with chapters on the generalized linear model topics include metric predicted variable on one or two groups metric predicted variable with one metric predictor metric predicted variable with multiple metric predictors metric predicted variable with one nominal predictor and metric predicted variable with multiple nominal predictors the exercises found in the text have explicit purposes and guidelines for accomplishment this book is intended for first year graduate students or advanced undergraduates in statistics data analysis psychology cognitive science social sciences clinical sciences and consumer sciences in business accessible including the basics of essential concepts of probability and random sampling examples with r programming language and jags software comprehensive coverage of all scenarios addressed by non bayesian textbooks t tests analysis of variance anova and comparisons in anova multiple regression and chi square contingency table analysis coverage of experiment planning r and jags computer programming code on website exercises have explicit purposes and guidelines for accomplishment provides step by step instructions on how to conduct bayesian data analyses in the popular and free software r and winbugs

linear regression is the first step and often the only step required to fit a simple model to data supported by a glossary and tutorial appendices this is an ideal introduction to regression analysis each chapter contains python code

linear regression is the workhorse of data analysis it is the first step and often the only step required to fit a simple model to data supported by a glossary and tutorial appendices this is an ideal introduction to regression analysis

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linear regression is the first step and often the only step required to fit a simple model to data supported by a glossary and tutorial appendices this is an ideal introduction to regression analysis includes matlab code

there is an explosion of interest in bayesian statistics primarily because recently created computational methods have finally made bayesian analysis tractable and accessible to a wide audience doing bayesian data analysis a tutorial introduction with r and bugs is for first year graduate students or advanced undergraduates and provides an accessible approach as all mathematics is explained intuitively and with concrete examples it assumes only algebra and rusty calculus unlike other textbooks this book begins with the basics including essential concepts of probability and random sampling the book gradually climbs all the way to advanced hierarchical modeling methods for realistic data the text provides complete examples with the r programming language and bugs software both freeware and begins with basic programming examples working up gradually to complete programs for complex analyses and presentation graphics these templates can be easily adapted for a large variety of students and their own research needs the textbook bridges the students from their undergraduate training into modern bayesian methods accessible including the basics of essential concepts of probability and random sampling examples with r programming language and bugs software comprehensive coverage of all scenarios addressed by non bayesian textbooks t tests analysis of variance anova and comparisons in anova multiple regression and chi square contingency table analysis coverage of experiment planning r and bugs computer programming code on website exercises have explicit purposes and guidelines for accomplishment

a tutorial style introduction to a class of methods for extracting independent signals from a mixture of signals originating

from different physical sources includes matlab computer code examples independent component analysis ica is becoming an increasingly important tool for analyzing large data sets in essence ica separates an observed set of signal mixtures into a set of statistically independent component signals or source signals in so doing this powerful method can extract the relatively small amount of useful information typically found in large data sets the applications for ica range from speech processing brain imaging and electrical brain signals to telecommunications and stock predictions in independent component analysis jim stone presents the essentials of ica and related techniques projection pursuit and complexity pursuit in a tutorial style using intuitive examples described in simple geometric terms the treatment fills the need for a basic primer on ica that can be used by readers of varying levels of mathematical sophistication including engineers cognitive scientists and neuroscientists who need to know the essentials of this evolving method an overview establishes the strategy implicit in ica in terms of its essentially physical underpinnings and describes how ica is based on the key observations that different physical processes generate outputs that are statistically independent of each other the book then describes what stone calls the mathematical nuts and bolts of how ica works presenting only essential mathematical proofs stone guides the reader through an exploration of the fundamental characteristics of ica topics covered include the geometry of mixing and unmixing methods for blind source separation and applications of ica including voice mixtures eeg fmri and fetal heart monitoring the appendixes provide a vector matrix tutorial plus basic demonstration computer code that allows the reader to see how each mathematical method described in the text translates into working matlab computer code

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