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Back to School: MIT & UWaterloo Model Gets an 'A' on ML Course Problems

Microsoft has launched free online 'Machine Learning for Beginners' course to help learn and deploy Machine Learning in their products and services.

Microsoft introduces Free Course on Machine Learning for Beginners

This course aims to provide an introduction to the quantitative analysis of data ... be familiar with quantitative methods at an introductory level, including linear regression analysis. Familiarity ...

Introduction to Data Science and Machine Learning

Introduction to the design and analysis of statistical studies in the health and life sciences. Topics include study design, descriptive and graphical methods, probability, inference on means, ...

Data Science—MS

This course offers an introduction to nonlinear mathematical optimization ... are studied and applied to supervised learning models, including nonlinear regression, logistic regression, support

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vector ...

IEMS 351: Optimization Methods In Data Science

In particular, we will be focusing on (i) linear regression models involving variables observed ... The goal of this year-long sequence of courses is to give a rigorous introduction to computer ...

MS Quantitative Finance Curriculum

A treatment of linear regression models, featuring the interpretation of ... Larsen, R.J. and M.J. Marx (2017) An Introduction to Mathematical Statistics and Its Applications, Pearson Education, 6 th ...

Further Statistics for Economics and Econometrics

Show all Introduction to Linear and Logistic Regression Models 8-12 Mar Medical Statistics; Show all Introduction to Data Visualisation and Web Applications Using R 15-16 Mar Statistical ...

Bristol Medical School Short Courses in Population Health Sciences

This 1-day course is designed to provide a general introduction ... the general linear model and its application in ANOVA, ANCOVA, MANOVA and MANCOVA with repeated measures models. The course will ...

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Research Methods and Statistics Summer School

The course is an introduction to the basic concepts and techniques ...
Prerequisite knowledge: Knowledge of regression analysis (linear, logistic, Poisson) is required for this course. Technical ...

Urban Health Summer Institute

SDS 201 or SDS 220: Introductory Statistics SDS 291: Multiple Regression
CSC 111: Intro to Programming SDS 192: Intro to Data Science
MTH 211: Linear Algebra Statistical ... math at college should ...

Statistical & Data Sciences

The main topics covered in this course include: simple and multiple linear regression, binary and multinomial logistic ... to the nondegree option by the MSSA admissions committee. This introduction ...

Nondegree Students

regression trees, ensemble methods, random forests, and gradient boosting. Python libraries scikit-learn ('sklearn') and XGBoost will be used. The second part will provide an introduction to Deep ...

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The rSBI Certificate in Finance & Economics

multiple regression, analysis of variance, and analysis of covariance.

* With approval of the MSAI program director, students may be able to waive or replace Linear Algebra and Introduction to ...

MSAI+X: Alternate AI Curriculum for Holders of Advanced Degrees

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Praise for the Fourth Edition "As with previous editions, the authors have produced a leading textbook on regression." –Journal of the American Statistical Association A comprehensive and up-to-date introduction to the fundamentals of regression analysis Introduction to Linear Regression Analysis, Fifth Edition continues to present both the conventional and less common uses of linear regression in today's cutting-edge scientific research. The authors blend both theory and application to equip readers with an understanding of the basic principles needed to apply regression model-building techniques in various fields of study, including engineering, management, and the health sciences. Following a general introduction to regression modeling, including typical applications, a host of technical tools are outlined such as basic inference procedures, introductory aspects of model adequacy checking, and polynomial regression models and their variations. The book then discusses how transformations and weighted least squares can be used to resolve problems of model inadequacy and also how to deal with influential observations. The Fifth Edition features numerous newly added topics, including: A chapter on regression analysis of time series data that presents the Durbin-Watson test and other techniques for detecting autocorrelation as well as parameter estimation in time series regression models Regression models with random effects in addition to a discussion on subsampling

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and the importance of the mixed model Tests on individual regression coefficients and subsets of coefficients Examples of current uses of simple linear regression models and the use of multiple regression models for understanding patient satisfaction data. In addition to Minitab, SAS, and S-PLUS, the authors have incorporated JMP and the freely available R software to illustrate the discussed techniques and procedures in this new edition. Numerous exercises have been added throughout, allowing readers to test their understanding of the material. Introduction to Linear Regression Analysis, Fifth Edition is an excellent book for statistics and engineering courses on regression at the upper-undergraduate and graduate levels. The book also serves as a valuable, robust resource for professionals in the fields of engineering, life and biological sciences, and the social sciences.

This book intends to provide an overview of biostatistics concepts and methodology through the use of statistical software. It helps clinicians, health care and biomedical professionals who need to have basic knowledge of biostatistics as they come across clinical data related to patient, drug and dosage requirement, treatment modalities in day to day life and they are required to take clinical and health care decisions based on the data. This book covers basic concepts involved in the field of Biostatistics such as descriptive statistics,

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inferential statistics, correlation and regression along with the advanced concepts such as factor analysis, cluster analysis, discriminant analysis and survival analysis. Each topic is explained with the help of R statistical package (open source package). One important note that the book will not discuss about the formulas and equations involved in the statistical concepts and the author assumes that the readers have basic understanding of excel as the sample dataset is used in the book are mostly excel based datasets and also have some clinical background.

Highly praised for its exceptional clarity, technical accuracy, and useful examples, Weiers' INTRODUCTION TO BUSINESS STATISTICS, Seventh Edition, introduces fundamental statistical concepts with an engaging, conversational presentation and a strong emphasis on the practical relevance of course material to students' lives and careers. The text's outstanding illustrations, friendly language, non-technical terminology, and current examples involving real-world business and personal settings will capture students' interest and prepare them for success from day one. Continuing cases, contemporary business applications, and more than 300 new or revised exercises and problems reflect important trends and the latest developments in today's dynamic business environment -- all with an accuracy you and your

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students can trust. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This book provides a systematic in-depth analysis of nonparametric regression with random design. It covers almost all known estimates. The emphasis is on distribution-free properties of the estimates.

"This volume presents in detail the fundamental theories of linear regression analysis and diagnosis, as well as the relevant statistical computing techniques so that readers are able to actually model the data using the techniques described in the book. This book is suitable for graduate students who are either majoring in statistics/biostatistics or using linear regression analysis substantially in their subject area." --Book Jacket.

"What are the most effective methods to code and analyze data for a particular study? This thoughtful and engaging book reviews the selection criteria for coding and analyzing any set of data--whether qualitative, quantitative, mixed, or visual. The authors systematically explain when to use verbal, numerical, graphic, or combined codes, and when to use qualitative, quantitative, graphic, or

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mixed-methods modes of analysis. Chapters on each topic are organized so that researchers can read them sequentially or can easily "flip and find" answers to specific questions. Nontechnical discussions of cutting-edge approaches--illustrated with real-world examples--emphasize how to choose (rather than how to implement) the various analyses. The book shows how using the right analysis methods leads to more justifiable conclusions and more persuasive presentations of research results. Useful features for teaching or self-study: *Chapter-opening preview boxes that highlight useful topics addressed. *End-of-chapter summary tables recapping the 'dos and don'ts' and advantages and disadvantages of each analytic technique. *Annotated suggestions for further reading and technical resources on each topic. Subject Areas/Keywords: analyses, coding, combined methods, data analysis, data collection, dissertation, graphical, interpretation, mixed methods, qualitative, quantitative, research analysis, research designs, research methods, social sciences, thesis, visual Audience: Researchers, instructors, and graduate students in a range of disciplines, including psychology, education, social work, sociology, health, and management; administrators and managers who need to make data-driven decisions"--

A comprehensive introduction to a wide variety of univariate

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andmultivariate smoothing techniques for regression Smoothing and Regression: Approaches, Computation, and Applicationbridges the many gaps that exist among competing univariate andmultivariate smoothing techniques. It introduces, describes, and insome cases compares a large number of the latest and most advancedtechniques for regression modeling. Unlike many other volumes onthis topic, which are highly technical and specialized, this bookdiscusses all methods in light of both computational efficiency andtheir applicability for real data analysis. Using examples of applications from the biosciences, environmentalsciences, engineering, and economics, as well as medical researchand marketing, this volume addresses the theory, computation, andapplication of each approach. A number of the techniques discussed,such as smoothing under shape restrictions or of dependent data,are presented for the first time in book form. Special features ofthis book include: * Comprehensive coverage of smoothing and regression with softwarehints and applications from a wide variety of disciplines * A unified, easy-to-follow format * Contributions from more than 25 leading researchers from aroundthe world * More than 150 illustrations also covering new graphicaltechniques important for exploratory data analysis andvisualization of high-dimensional problems * Extensive end-of-chapter references For professionals and aspiring professionals in statistics, appliedmathematics, computer

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science, and econometrics, as well as for researchers in the applied and social sciences, Smoothing and Regression is a unique and important new resource destined to become one of the most frequently consulted references in the field.

Discover New Methods for Dealing with High-Dimensional Data A sparse statistical model has only a small number of nonzero parameters or weights; therefore, it is much easier to estimate and interpret than a dense model. Statistical Learning with Sparsity: The Lasso and Generalizations presents methods that exploit sparsity to help recover the underlying signal in a set of data. Top experts in this rapidly evolving field, the authors describe the lasso for linear regression and a simple coordinate descent algorithm for its computation. They discuss the application of l_1 penalties to generalized linear models and support vector machines, cover generalized penalties such as the elastic net and group lasso, and review numerical methods for optimization. They also present statistical inference methods for fitted (lasso) models, including the bootstrap, Bayesian methods, and recently developed approaches. In addition, the book examines matrix decomposition, sparse multivariate analysis, graphical models, and

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compressed sensing. It concludes with a survey of theoretical results for the lasso. In this age of big data, the number of features measured on a person or object can be large and might be larger than the number of observations. This book shows how the sparsity assumption allows us to tackle these problems and extract useful and reproducible patterns from big datasets. Data analysts, computer scientists, and theorists will appreciate this thorough and up-to-date treatment of sparse statistical modeling.

Treats linear regression diagnostics as a tool for application of linear regression models to real-life data. Presentation makes extensive use of examples to illustrate theory. Assesses the effect of measurement errors on the estimated coefficients, which is not accounted for in a standard least squares estimate but is important where regression coefficients are used to apportion effects due to different variables. Also assesses qualitatively and numerically the robustness of the regression fit.

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