

Exploratory Data Mining and Data Cleaning

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Exploratory Data Mining and Data Cleaning Tamraparni Dasu, Theodore Johnson, 2003-08-01 Written for practitioners of data mining data cleaning and database management Presents a technical treatment of data quality including process metrics tools and algorithms Focuses on developing an evolving modeling strategy through an iterative data exploration loop and incorporation of domain knowledge Addresses methods of detecting quantifying and correcting data quality issues that can have a significant impact on findings and decisions using commercially available tools as well as new algorithmic approaches Uses case studies to illustrate applications in real life scenarios Highlights new approaches and methodologies such as the DataSphere space partitioning and summary based analysis techniques Exploratory Data Mining and Data Cleaning will serve as an important reference for serious data analysts who need to analyze large amounts of unfamiliar data managers of operations databases and students in undergraduate or graduate level courses dealing with large scale data analysis and data mining

Principles of Knowledge Management Eliezer Geisler, Nilmini Wickramasinghe, 2015-03-26 This text provides a comprehensive introduction to the new field of knowledge management It approaches the subject from a management rather than a highly technical point of view and provides students with a state of the art survey of KM and its implementation in diverse organizations The text covers the nature of knowledge tacit and explicit the origins and units of organizational knowledge and the evolution of knowledge management in contemporary society It explores the implementation and utilization of knowledge management systems and how to measure their impact outputs and benefits The book includes a variety of original case studies that illustrate specific situations in which the absence or existence of knowledge management systems has been crucial to the organization's actions Charts and figures throughout help clarify more complex phenomena and classifications and each chapter includes review questions and a comprehensive index

Knowledge Management Primer Rajeev K. Bali, Nilmini Wickramasinghe, Brian Lehaney, 2009-09-10 This book provides readers with an essential understanding of approaches to knowledge management KM by examining the purpose and nature of its key components It aims to demystify the KM field by explaining in a precise accessible manner the key concepts of KM tools strategies and techniques and their benefits to contemporary organizations

Encyclopedia of Database

Technologies and Applications Rivero, Laura C., Doorn, Jorge Horacio, Ferraggine, Viviana E., 2005-06-30 Addresses the evolution of database management technologies and applications along with the progress and endeavors of new research areas P xiii

Enterprise Systems Integration Judith M. Myerson, 2001-09-26 The convergence of knowledge technology and human performance which comprises today's enterprise allows creative business process design Thus an organization can create new and innovative ways to service customers or to do business with suppliers and make itself a leader in its field This capability relies on a successful strategy that integra

Hands-On Exploratory Data Analysis with Python Suresh Kumar Mukhiya, Usman Ahmed, 2020-03-27 Discover techniques to summarize the characteristics of your data using PyPlot

NumPy SciPy and pandas Key Features Understand the fundamental concepts of exploratory data analysis using Python Find missing values in your data and identify the correlation between different variables Practice graphical exploratory analysis techniques using Matplotlib and the Seaborn Python package Book Description Exploratory Data Analysis EDA is an approach to data analysis that involves the application of diverse techniques to gain insights into a dataset This book will help you gain practical knowledge of the main pillars of EDA data cleaning data preparation data exploration and data visualization You ll start by performing EDA using open source datasets and perform simple to advanced analyses to turn data into meaningful insights You ll then learn various descriptive statistical techniques to describe the basic characteristics of data and progress to performing EDA on time series data As you advance you ll learn how to implement EDA techniques for model development and evaluation and build predictive models to visualize results Using Python for data analysis you ll work with real world datasets understand data summarize its characteristics and visualize it for business intelligence By the end of this EDA book you ll have developed the skills required to carry out a preliminary investigation on any dataset yield insights into data present your results with visual aids and build a model that correctly predicts future outcomes What you will learn Import clean and explore data to perform preliminary analysis using powerful Python packages Identify and transform erroneous data using different data wrangling techniques Explore the use of multiple regression to describe non linear relationships Discover hypothesis testing and explore techniques of time series analysis Understand and interpret results obtained from graphical analysis Build train and optimize predictive models to estimate results Perform complex EDA techniques on open source datasets Who this book is for This EDA book is for anyone interested in data analysis especially students statisticians data analysts and data scientists The practical concepts presented in this book can be applied in various disciplines to enhance decision making processes with data analysis and synthesis Fundamental knowledge of Python programming and statistical concepts is all you need to get started with this book Mathematical Methods for Knowledge Discovery and Data Mining Giovanni Felici, Carlo Vercellis, 2008 Annotation The field of data mining has seen a demand in recent years for the development of ideas and results in an integrated structure Mathematical Methods for Knowledge Discovery Bayesian methods data visualization kernel methods neural networks text speech and image recognition and many others This Premier Reference Source is an invaluable resource for scholars and practitioners in the fields of biomedicine engineering finance and insurance manufacturing marketing performance measurement and telecommunications

Designing a Total Data Solution Roxanne Burkey, Charles V. Breakfield, 2000-09-28 Your company s global competitiveness depends on the utilization and maintenance of information Current data handling practices storing updating and accessing data can be either a problem or a significant strategic advantage for your company Designing a Total Data Storage Solution Technology Implementation and Deployment gives you the inform *Handbook of Artificial Intelligence and Wearables* Hemachandran K, Manjeet Rege, Zita Zoltay Paprika, K. V. Rajesh Kumar, Shahid Mohammad Ganie, 2024-04-04

The ever changing world of wearable technologies makes it difficult for experts and practitioners to keep up with the most recent developments This handbook provides a solid understanding of the significant role that AI plays in the design and development of wearable technologies along with applications and case studies Handbook of Artificial Intelligence and Wearables Applications and Case Studies presents a deep understanding of AI and its involvement in wearable technologies The book discusses the key role that AI plays and goes on to discuss the challenges and possible solutions It highlights the more recent advances along with real world approaches for the design and development of the most popular AI enabled wearable devices such as smart fitness trackers AI enabled glasses sports wearables disease diagnostic devices and more complete with case studies This book will be a valuable source for researchers academics technologists industrialists practitioners and all people who wish to explore the applications of AI and the part it plays in wearable technologies

Information Technology Applications in Industry II Prasad Yarlagadda,Su Fen Yang,Keon Myung Lee,2013-09-03
 Selected peer reviewed papers from the 2013 2nd International Conference on Information Technology and Management Innovation ICITMI 2013 July 23 24 2013 Zhuhai China Proceedings of the 1998 ACM SIGMOD International Conference on Management of Data Laura Haas,Ashutosh Tiwary,1998 **Journal of the American Statistical Association** ,2006

Proceedings of the Third International Conference on Knowledge Discovery and Data Mining David Heckerman,1997
AMSTAT News American Statistical Association,2003 **Applied Machine Learning** M. Gopal,2019-06-07 Cutting edge machine learning principles practices and applications This comprehensive textbook explores the theoretical under pinnings of learning and equips readers with the knowledge needed to apply powerful machine learning techniques to solve challenging real world problems Applied Machine Learning shows step by step how to conceptualize problems accurately represent data select and tune algorithms interpret and analyze results and make informed strategic decisions Presented in a non rigorous mathematical style the book covers a broad array of machine learning topics with special emphasis on methods that have been profitably employed Coverage includes Supervised learning Statistical learning Learning with support vector machines SVM Learning with neural networks NN Fuzzy inference systems Data clustering Data transformations Decision tree learning Business intelligence Data mining And much more Cyberinfrastructure Technologies and Applications Junwei Cao,2009 Cyberinfrastructure was proposed in a report of the NSF Blue Ribbon advisory panel in 2003 Cyberinfrastructure will provide a unified environment to access and manage cyber resources e g supercomputers data archives software services scientific instruments and virtual organisations In this book the authors review latest research and development and discuss new technologies and applications involved in building Cyberinfrastructure The purpose of this book is to provide a detailed summary of early experiences practices and lessons learned in building Cyberinfrastructure from multiple perspectives software development and maintenance resource integration and sharing cyber environment construction operation and management testing and troubleshooting application enabling security and QoS ensuring

Consequently this book can serve as a valuable source of reference and indispensable reading for researchers educators engineers graduate students and practitioners in the field of design and implementation of Cyberinfrastructure systems

Markov Decision Processes Martin L. Puterman, 2005-03-03 The Wiley Interscience Paperback Series consists of selected books that have been made more accessible to consumers in an effort to increase global appeal and general circulation With these new unabridged softcover volumes Wiley hopes to extend the lives of these works by making them available to future generations of statisticians mathematicians and scientists This text is unique in bringing together so many results hitherto found only in part in other texts and papers The text is fairly self contained inclusive of some basic mathematical results needed and provides a rich diet of examples applications and exercises The bibliographical material at the end of each chapter is excellent not only from a historical perspective but because it is valuable for researchers in acquiring a good perspective of the MDP research potential Zentralblatt fur Mathematik it is of great value to advanced level students researchers and professional practitioners of this field to have now a complete volume with more than 600 pages devoted to this topic Markov Decision Processes Discrete Stochastic Dynamic Programming represents an up to date unified and rigorous treatment of theoretical and computational aspects of discrete time Markov decision processes Journal of the American Statistical Association **MIPPR 2005** Jianya Gong, 2005 Proceedings of SPIE offer access to the latest innovations in research and technology and are among the most cited references in patent literature **Dissertation Abstracts International** , 2008 **KDD ...** , 2005

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