

Data Cleaning And Data Preprocessing

Principles of Data Mining and Knowledge Discovery 2000

IEEE International Symposium on Industrial Electronics Proceedings 2001

Materials for Power Electronics, Construction and Environmental Engineering Denis B. Solovev 2023-05-18 Special topic volume with invited peer-reviewed papers only

Cognitive Social Mining Applications in Data Analytics and Forensics Haldorai, Anandakumar 2018-12-14 Recently, there has been a rapid increase in interest regarding social network analysis in the data mining community. Cognitive radios are expected to play a major role in meeting this exploding traffic demand on social networks due to their ability to sense the environment, analyze outdoor parameters, and then make decisions for dynamic time, frequency, space, resource allocation, and management to improve the utilization of mining the social data. Cognitive Social Mining Applications in Data Analytics and Forensics is an essential reference source that reviews cognitive radio concepts and examines their applications to social mining using a machine learning approach so that an adaptive and intelligent mining is achieved. Featuring research on topics such as data mining, real-time ubiquitous social mining services, and cognitive computing, this book is ideally designed for social network analysts, researchers, academicians, and industry professionals.

Data Mining: Concepts and Techniques Jiawei Han 2011-06-09 Data Mining: Concepts and Techniques provides the concepts and techniques in processing gathered data or information, which will be used in various applications. Specifically, it explains data mining and the tools used in discovering knowledge from the collected data. This book is referred as the knowledge discovery from data (KDD). It focuses on the feasibility, usefulness, effectiveness, and scalability of techniques of large data sets.

After describing data mining, this edition explains the methods of knowing, preprocessing, processing, and warehousing data. It then presents information about data warehouses, online analytical processing (OLAP), and data cube technology. Then, the methods involved in mining frequent patterns, associations, and correlations for large data sets are described. The book details the methods for data classification and introduces the concepts and methods for data clustering. The remaining chapters discuss the outlier detection and the trends, applications, and research frontiers in data mining. This book is intended for Computer Science students, application developers, business professionals, and researchers who seek information on data mining. - Presents dozens of algorithms and implementation examples, all in pseudo-code and suitable for use in real-world, large-scale data mining projects - Addresses advanced topics such as mining object-relational databases, spatial databases, multimedia databases, time-series databases, text databases, the World Wide Web, and applications in several fields - Provides a comprehensive, practical look at the concepts and techniques you need to get the most out of your data

How Can a Loss of Information in Mixed Attribute Datasets be Prevented? Aasha Ajith 2019-03-22 Master's Thesis from the year 2012 in the subject Computer Science - General, grade: 1.00, Avinashilingam University, language: English, abstract: This work is concerned with the question of how loss of information in data mining can be prevented by putting in missing values in mixed attributed datasets. Missing value imputation is a procedure that replaces the missing values with some feasible values. Missing data imputation methods are based on only complete instances, instances without missing values in a dataset that is, when estimating plausible values for the missing values in the dataset. Actually, the information within incomplete instances can also play an important role in missing value imputation. Missing data imputation aims

at providing estimations for missing values by reasoning from observed data. Because missing values can result in bias that impacts on the quality of learned patterns and the performance of classifications Various techniques have been developed to deal with missing values in data sets with homogenous attributes. But those approaches are independent of all either continuous or discrete value. Moreover these algorithms cannot be applied to real data sets such as equipment maintenance datasets, industrial data sets and gene datasets due to the fact that these data sets contain both discrete and continuous attributes. In order to overcome the above shortcomings, imputation is done in the following manner in this work, there by contributing to both continuous and discrete data. In this method two consistent estimators for discrete and continuous missing target values are developed, and then a spherical kernel based iterative estimator using spherical kernel with RBF kernel and spherical kernel with poly kernel is advocated to impute mixed-attribute data sets, thereby improving the interpolation and extrapolation abilities. The performance of this technique is compared by implementing the imputation with the K-NN, Frequency estimator, RBF kernel, Poly kernel and a mixed kernel and is evaluated in terms of RMSE, which reads out as Root mean square error, and correlation coefficient. In these datasets, the missing values are imputed using higher order kernel functions and the performance is evaluated. From the experimental results it has been observed that spherical kernel with rbf and spherical kernel with poly kernel imputes missing values better when compared to other techniques.

What Every Engineer Should Know About Data-Driven Analytics Satish Mahadevan Srinivasan 2023-04-13 *What Every Engineer Should Know About Data-Driven Analytics* provides a comprehensive introduction to the theoretical concepts and approaches of machine learning that are used in predictive data analytics. By introducing the theory and by providing practical applications, this text can be understood by every engineering discipline. It offers a detailed and focused treatment of the important machine learning approaches and concepts that can be exploited to build models to enable decision making in different domains.

Utilizes practical examples from different disciplines and sectors within engineering and other related technical areas to demonstrate how to go from data, to insight, and to decision making Introduces various approaches to build models that exploits different algorithms Discusses predictive models that can be built through machine learning and used to mine patterns from large datasets Explores the augmentation of technical and mathematical materials with explanatory worked examples Includes a glossary, self-assessments, and worked-out practice exercises Written to be accessible to non-experts in the subject, this comprehensive introductory text is suitable for students, professionals, and researchers in engineering and data science.

Heuristics and Optimization for Knowledge Discovery Charles Sinclair Newton 2002 Focusing on searching, optimization, statistics, data mining, neural networks, and applications, 15 chapters by scholars and practitioners from around the world cover topics like feature selection, cost-sensitive classification, heuristic search-based stacking, and search engine design.

Frontiers in Data Science Matthias Dehmer 2017-10-16 *Frontiers in Data Science* deals with philosophical and practical results in Data Science. A broad definition of Data Science describes the process of analyzing data to transform data into insights. This also involves asking philosophical, legal and social questions in the context of data generation and analysis. In fact, Big Data also belongs to this universe as it comprises data gathering, data fusion and analysis when it comes to manage big data sets. A major goal of this book is to understand data science as a new scientific discipline rather than the practical aspects of data analysis alone.

Safe, Secure, Ethical, Responsible Technologies and Emerging Applications Franklin Tchakounte 2024-04-17 This book constitutes the refereed proceedings of the First EAI International Conference on Safe, Secure, Ethical, Responsible Technologies and Emerging Applications, SAFER-TEA 2023, held in Yaoundé, Cameroon, during October 25-27, 2023. The 24 full papers were carefully reviewed and selected from 75 submissions. They were organized in topical sections as follows:

Regulations and Ethics of Artificial Intelligence, Resource-constrained Networks and Cybersecurity, Emerging Artificial Intelligence Applications, Reviews.

Strategies in Biomedical Data Science Jay A. Etchings 2016-12-27 An essential guide to healthcare data problems, sources, and solutions Strategies in Biomedical Data Science provides medical professionals with much-needed guidance toward managing the increasing deluge of healthcare data. Beginning with a look at our current top-down methodologies, this book demonstrates the ways in which both technological development and more effective use of current resources can better serve both patient and payer. The discussion explores the aggregation of disparate data sources, current analytics and toolsets, the growing necessity of smart bioinformatics, and more as data science and biomedical science grow increasingly intertwined. You'll dig into the unknown challenges that come along with every advance, and explore the ways in which healthcare data management and technology will inform medicine, politics, and research in the not-so-distant future. Real-world use cases and clear examples are featured throughout, and coverage of data sources, problems, and potential mitigations provides necessary insight for forward-looking healthcare professionals. Big Data has been a topic of discussion for some time, with much attention focused on problems and management issues surrounding truly staggering amounts of data. This book offers a lifeline through the tsunami of healthcare data, to help the medical community turn their data management problem into a solution. Consider the data challenges personalized medicine entails Explore the available advanced analytic resources and tools Learn how bioinformatics as a service is quickly becoming reality Examine the future of IOT and the deluge of personal device data The sheer amount of healthcare data being generated will only increase as both biomedical research and clinical practice trend toward individualized, patient-specific care. Strategies in Biomedical Data Science provides expert insight into the kind of robust data management that is becoming increasingly critical as healthcare evolves.

Introduction to Business Analytics Dwaipayan Sethi 2025-02-20

"Introduction to Business Analytics" delves into the convergence of data and technology in our digitized world. We explore the significance of business analytics, a field that uses data, statistical analysis, and data mining to understand and improve business performance. We examine how business analytics tools help predict business outcomes by visualizing trends and patterns through forecasting and predictive modeling. These tools are integral to business success, aiding companies in making data-driven decisions. In many contexts, data analysis is the first step in solving business problems, making it crucial for business students to grasp these concepts. This book provides insights into the meaning, scope, tools, and methods of business analytics. We explore advanced business analytics tools used for data analysis and aim to be the primary resource for students, researchers, and anyone interested in the field. The first section covers the foundation of business analytics, including descriptive, predictive, and prescriptive analytics. With simple and easy-to-understand explanations, we cover both basic and advanced business analytics concepts.

Advanced Manufacturing and Automation XII Yi Wang 2023-01-25 This book is a compilation of selected papers from the 12th International Workshop of Advanced Manufacturing and Automation (IWAMA 2022), held in Jimei University, Xiamen, China on 01 - 02 November, 2022. Topics focusing on novel techniques for manufacturing and automation in Industry 4.0 are now vital factors for the maintenance and improvement of the economy of a nation and the quality of life. It will help academic researchers and engineering to implement the concept, theory and methods in Industry 4.0 which has been a hot topic. These proceedings will make valuable contributions to academic researchers, engineers in the industry for the challenges in the 4th industry revolution and smart factories.

Information Technology Applications in Industry II Prasad Yarlagadda 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

Hands-On Data Preprocessing in Python Roy Jafari 2022-01-21 Get

your raw data cleaned up and ready for processing to design better data analytic solutions

Key Features Develop the skills to perform data cleaning, data integration, data reduction, and data transformation Make the most of your raw data with powerful data transformation and massaging techniques Perform thorough data cleaning, including dealing with missing values and outliers

Book Description Hands-On Data Preprocessing is a primer on the best data cleaning and preprocessing techniques, written by an expert who's developed college-level courses on data preprocessing and related subjects. With this book, you'll be equipped with the optimum data preprocessing techniques from multiple perspectives, ensuring that you get the best possible insights from your data. You'll learn about different technical and analytical aspects of data preprocessing - data collection, data cleaning, data integration, data reduction, and data transformation - and get to grips with implementing them using the open source Python programming environment. The hands-on examples and easy-to-follow chapters will help you gain a comprehensive articulation of data preprocessing, its whys and hows, and identify opportunities where data analytics could lead to more effective decision making. As you progress through the chapters, you'll also understand the role of data management systems and technologies for effective analytics and how to use APIs to pull data. By the end of this Python data preprocessing book, you'll be able to use Python to read, manipulate, and analyze data; perform data cleaning, integration, reduction, and transformation techniques, and handle outliers or missing values to effectively prepare data for analytic tools.

What you will learn

- Use Python to perform analytics functions on your data
- Understand the role of databases and how to effectively pull data from databases
- Perform data preprocessing steps defined by your analytics goals
- Recognize and resolve data integration challenges
- Identify the need for data reduction and execute it
- Detect opportunities to improve analytics with data transformation

Who this book is for This book is for junior and senior data analysts, business intelligence professionals, engineering undergraduates, and data enthusiasts looking to perform preprocessing and data cleaning on large amounts of data. You don't need any prior

experience with data preprocessing to get started with this book. However, basic programming skills, such as working with variables, conditionals, and loops, along with beginner-level knowledge of Python and simple analytics experience, are a prerequisite.

Reducing the Computational Requirements of the Nearest Neighbor Classifier Raja Kumar 2019-08-26 Doctoral Thesis / Dissertation from the year 2018 in the subject Engineering - Computer Engineering, Jawaharlal Nehru University , language: English, abstract: The tremendous growth of data due to the Internet and electronic commerce has created serious challenges to the researches in pattern recognition. There is a need of processing and analysing data. Advances in data mining and knowledge discovery provide the requirement of new approaches to reduce the data. In this work, methods are proposed to overcome the computational requirements of the nearest neighbor classifiers. The work shows some of the possible remedies to overcome problems with nearest neighbor based classifiers. The work proposes a new method of reducing the data set size. The author reduces the data set size in terms of number of samples and also in terms of number of features. Therefore, the holistic goal of the work is to reduce the time and space requirements and at the same time not to degrade the performance of the nearest neighbor classifier. The nearest neighbor classifier is a popular non-parametric classifier used in many fields since the 1950s. It is conceptually a simple classifier and shows good performance.

AI Governance Playbook Robert F. Smallwood 2026-04-30 Artificial intelligence can evoke fears that evil robots are taking over the world. AI governance is key to making sure that never happens.

5th International Conference on Materials Science and Industrial Applications (MSIA 2023) Zhibin You 2023-07-19 Selected peer-reviewed extended articles based on abstracts presented at the 5th International Conference on Materials Science and Industrial Applications (MSIA-2023) Aggregated Book

The 10th International Conference on Science and Technology (ICST) Ganjar Alfian 2025-10-13 Selected peer-reviewed full text papers from the 10th International Conference on Science and Technology (ICST)

UGM 2024) Selected peer-reviewed full text papers from the 10th International Conference on Science and Technology (ICST UGM 2024), October 23-24, 2024, Yogyakarta, Indonesia

Machine Learning and Big Data Uma N. Dulhare 2020-09-01 This book is intended for academic and industrial developers, exploring and developing applications in the area of big data and machine learning, including those that are solving technology requirements, evaluation of methodology advances and algorithm demonstrations. The intent of this book is to provide awareness of algorithms used for machine learning and big data in the academic and professional community. The 17 chapters are divided into 5 sections: Theoretical Fundamentals; Big Data and Pattern Recognition; Machine Learning: Algorithms & Applications; Machine Learning's Next Frontier and Hands-On and Case Study. While it dwells on the foundations of machine learning and big data as a part of analytics, it also focuses on contemporary topics for research and development. In this regard, the book covers machine learning algorithms and their modern applications in developing automated systems. Subjects covered in detail include: Mathematical foundations of machine learning with various examples. An empirical study of supervised learning algorithms like Naïve Bayes, KNN and semi-supervised learning algorithms viz. S3VM, Graph-Based, Multiview. Precise study on unsupervised learning algorithms like GMM, K-mean clustering, Dritchlet process mixture model, X-means and Reinforcement learning algorithm with Q learning, R learning, TD learning, SARSA Learning, and so forth. Hands-on machine leaning open source tools viz. Apache Mahout, H2O. Case studies for readers to analyze the prescribed cases and present their solutions or interpretations with intrusion detection in MANETS using machine learning. Showcase on novel user-cases: Implications of Electronic Governance as well as Pragmatic Study of BD/ML technologies for agriculture, healthcare, social media, industry, banking, insurance and so on.

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