

Data Cleaning And Data Preprocessing

Hands-On Data Preprocessing in Python
Data Preprocessing in Data Mining
Data Mining, Southeast Asia Edition
Computational Methods and Data Engineering
Big Data Preprocessing
Big Data, Data Mining and Data Science
Data Mining and Data Warehousing
Data Science and Data Analytics
Artificial Intelligence and Data Science
The 10th International Conference on Science and Technology (ICST)
Data Mining
Data Preprocessing, Active Learning, and Cost Perceptive Approaches for Resolving Data Imbalance
Data Preprocessing and Data Modeling Methodologies for Handling Sparse and Noisy Data
Handbook of Organic Compounds: Methods and interpretations
User's Guide to Programming Fault Injection and Data Acquisition in the SIFT Environment
Data Preprocessing with Python for Absolute Beginners
Learning from Data
Encyclopedia of Data Warehousing and Mining
The Earth's Surface Studied from Space
Library & Information Science Abstracts
Roy Jafari Salvador García Jiawei Han Vijendra Singh Julián Luengo George Dimitoglou Parteek Bhatia Dinesh Kumar Arivalagan Mr.P.Ganesh Babu Ganjar Alfian Mehmed Kantardzic Rana, Dipti P. Yian Hong Ler Jerry Workman A. I. Sciences OU Vladimir S. Cherkassky John Wang COSPAR. Plenary Meeting

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get your raw data cleaned up and ready for processing to design better data analytic solutions key featuresdevelop the skills to perform data cleaning data integration data reduction and data transformationmake the most of your raw data with powerful data transformation and massaging techniquesperform thorough data cleaning including dealing with missing values and outliersbook 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 learnuse python to perform analytics functions on your dataunderstand the role of databases and how to effectively pull data from databasesperform data preprocessing steps defined by your analytics goalsrecognize and resolve data integration challengesidentify the need for data reduction and execute itdetect opportunities to improve analytics with data transformationwho 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

data preprocessing for data mining addresses one of the most important issues within the well known knowledge discovery from data process data directly taken from the source will likely have inconsistencies errors or most importantly it is not ready to be considered for a data mining process furthermore the increasing amount of data in recent science industry and business applications calls to the requirement of more complex tools to analyze it thanks to data preprocessing it is possible to convert the impossible into possible adapting the data to fulfill the input demands of each data mining algorithm data preprocessing includes the data reduction techniques which aim at

reducing the complexity of the data detecting or removing irrelevant and noisy elements from the data this book is intended to review the tasks that fill the gap between the data acquisition from the source and the data mining process a comprehensive look from a practical point of view including basic concepts and surveying the techniques proposed in the specialized literature is given each chapter is a stand alone guide to a particular data preprocessing topic from basic concepts and detailed descriptions of classical algorithms to an incursion of an exhaustive catalog of recent developments the in depth technical descriptions make this book suitable for technical professionals researchers senior undergraduate and graduate students in data science computer science and engineering

our ability to generate and collect data has been increasing rapidly not only are all of our business scientific and government transactions now computerized but the widespread use of digital cameras publication tools and bar codes also generate data on the collection side scanned text and image platforms satellite remote sensing systems and the world wide have flooded us with a tremendous amount of data this explosive growth has generated an even more urgent need for new techniques and automated tools that can help us transform this data into useful information and knowledge like the first edition voted the most popular data mining book by kd nuggets readers this book explores concepts and techniques for the discovery of patterns hidden in large data sets focusing on issues relating to their feasibility usefulness effectiveness and scalability however since the publication of the first edition great progress has been made in the development of new data mining methods systems and applications this new edition substantially enhances the first edition and new chapters have been added to address recent developments on mining complex types of data including stream data sequence data graph structured data social network data and multi relational data a comprehensive practical look at the concepts and techniques you need to know to get the most out of real business data updates that incorporate input from readers changes in the field and more material on statistics and machine learning dozens of algorithms and implementation examples all in easily understood pseudo code and suitable for use in real world large scale data mining projects complete classroom support for instructors at mcp.com/datamining2e companion site

this book gathers selected high quality research papers from the international conference on computational methods and data engineering icmde 2020 held at srm university sonipat delhi ncr india focusing on cutting edge technologies and the most dynamic areas of computational intelligence and data engineering the respective contributions address topics including collective intelligence intelligent transportation systems fuzzy systems data privacy and security data mining data warehousing big data analytics cloud computing natural language processing swarm intelligence and

speech processing

this book offers a comprehensible overview of big data preprocessing which includes a formal description of each problem it also focuses on the most relevant proposed solutions this book illustrates actual implementations of algorithms that helps the reader deal with these problems this book stresses the gap that exists between big raw data and the requirements of quality data that businesses are demanding this is called smart data and to achieve smart data the preprocessing is a key step where the imperfections integration tasks and other processes are carried out to eliminate superfluous information the authors present the concept of smart data through data preprocessing in big data scenarios and connect it with the emerging paradigms of iot and edge computing where the end points generate smart data without completely relying on the cloud finally this book provides some novel areas of study that are gathering a deeper attention on the big data preprocessing specifically it considers the relation with deep learning as of a technique that also relies in large volumes of data the difficulty of finding the appropriate selection and concatenation of preprocessing techniques applied and some other open problems practitioners and data scientists who work in this field and want to introduce themselves to preprocessing in large data volume scenarios will want to purchase this book researchers that work in this field who want to know which algorithms are currently implemented to help their investigations may also be interested in this book

through the application of cutting edge techniques like big data data mining and data science it is possible to extract insights from massive datasets these methodologies are crucial in enabling informed decision making and driving transformative advancements across many fields industries and domains this book offers an overview of latest tools methods and approaches while also highlighting their practical use through various applications and case studies

provides a comprehensive textbook covering theory and practical examples for a course on data mining and data warehousing

data science and data analytics explores the foundational concepts methodologies and tools that drive data driven decision making in various industries this book provides a comprehensive overview of data collection processing analysis and visualization techniques emphasizing practical applications and real world case studies readers will gain insights into statistical methods machine learning algorithms and the importance of data ethics equipping them with the knowledge to harness the power of data for informed decision making and strategic planning in an increasingly

data centric world

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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

data mining describes the often complex and sophisticated tools used in automatic data analysis such as analyzing a customer s previous buying habits this volume emphasizes the selection of appropriate methodologies and data analysis software as well as parameter tuning

over the last two decades researchers are looking at imbalanced data learning as a prominent research area many critical real world application areas like finance health network news online advertisement social network media and weather have imbalanced data which emphasizes the research necessity for real time implications of precise fraud defaulter detection rare disease reaction prediction network intrusion detection fake news detection fraud advertisement detection cyber bullying identification disaster events prediction and more machine learning algorithms are based on the heuristic of equally distributed balanced data and provide the biased result towards the majority data class which is not acceptable considering imbalanced data is omnipresent in real life scenarios and is forcing us to learn from imbalanced data for foolproof application design imbalanced data is multifaceted and demands a new perception using the novelty at sampling approach of data preprocessing an active learning approach and a cost perceptive approach to resolve data imbalance data preprocessing active learning and cost perceptive approaches for resolving data imbalance offers new aspects for imbalanced data learning by providing the advancements of the traditional methods with respect to big data through case studies and research from experts in academia engineering and industry the chapters provide theoretical frameworks and the latest empirical research findings that help to improve the understanding of the impact of imbalanced data and its resolving techniques based on data preprocessing active learning and cost perceptive approaches this book is ideal for data scientists data analysts engineers practitioners researchers academicians and students looking for more information on imbalanced data characteristics and solutions using varied approaches

for students and vibrational spectroscopists working in molecular spectroscopy labs and dealing daily with spectral interpretation and data processing of organic spectra polymers and surfactants this three volume compendium contains detailed descriptions and reviews of ultraviolet visible near infrared raman and dielectric measurement techniques as well as interpretive techniques and information on all spectra which are presented in terms of wavenumber and transmittance ultraviolet visible 4th overtone nir 3rd overtone nir and nir spectra are also presented in terms of nanometers and absorbance space and horizontal atr spectra are presented in terms of wavenumber and absorbance space the spectra found here are useful for identification purposes as well as for instruction in the various interpretive and data processing techniques discussed editor workman is employed at kimberly clark corporation c book news inc

this book is dedicated to data preparation and explains how to perform different data preparation techniques on various datasets using different data preparation libraries written in the python programming language key features a crash course in python to fill any gaps in prerequisite knowledge and a solid foundation on which to build your new skills a complete data preparation pipeline for your guided practice three real world projects covering each major task to cement your learned skills in data preparation classification and regressionbook descriptionthe book follows a straightforward approach it is divided into nine chapters chapter 1 introduces the basic concept of data preparation and installation steps for the software that we will need to perform data preparation in this book chapter 1 also contains a crash course on python followed by a brief overview of different data types in chapter 2 you will then learn how to handle missing values in the data while the categorical encoding of numeric data is explained in chapter 4 the second half of the course presents data discretization and describes the handling of outliers process chapter 7 demonstrates how to scale features in the dataset subsequent chapters teach you to handle mixed and datetime data type balance data and practice resampling a full data preparation final project is also available at the end of the book different types of data preprocessing techniques have been explained theoretically followed by practical examples in each chapter each chapter also contains an exercise that students can use to evaluate their understanding of the chapter s concepts by the end of this course you will have built a solid working knowledge in data preparation the first steps to any data science or machine learning career and an essential skillset for any aspiring developer the code bundle for this course is available at aispublishing net book data preprocessingwhat you will learn explore different libraries for data preparation understand data types handle missing data encode categorical data discretize data learn to handle outliers practice feature scaling handle mixed and datetime variables and imbalanced datasets employ your new skills to complete projects in data preparation classification and regressionwho this book is forin addition to

beginners in data preparation with python this book can also be used as a reference manual by intermediate and experienced programmers it contains data preprocessing code samples using multiple data visualization libraries

accommodating both beginning and advanced students this book establishes a general conceptual framework in which various learning methods from statistics neural networks and fuzzy logic can be applied showing that a few fundamental principles underlie most new methods being proposed today in the fields of statistics engineering and computer science

this set offers thorough examination of the issues of importance in the rapidly changing field of data warehousing and mining provided by publisher

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