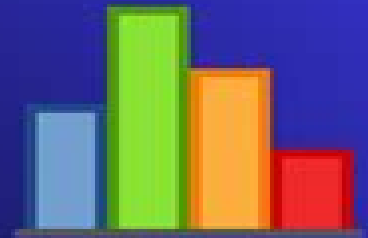
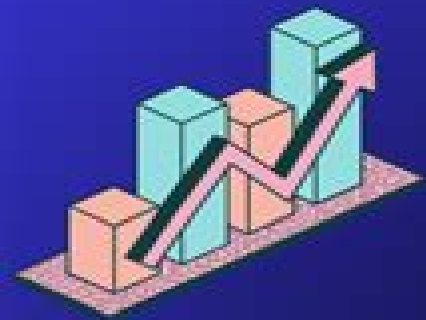


# DATA CLEANING AND PREPROCESSING



# Data Cleaning And Data Preprocessing

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Wang, Tao Yu, Kesheng 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

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### *What Every Engineer Should Know About Data-Driven Analytics* Satish Mahadevan

Srinivasan, Phillip A. Laplante, 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

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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 **Cognitive Social Mining Applications in Data Analytics and Forensics** Haldorai, Anandakumar,Ramu, Arulmurugan,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 **Frontiers in Data Science** Matthias Dehmer, Frank Emmert-Streib,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 **The 10th International Conference on Science and Technology (ICST)** Ganjar Alfian,Unan Yusmaniar Oktiawati,Yuris Mulya Saputra,Cecep Pratama,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 **Safe, Secure, Ethical, Responsible Technologies and Emerging Applications** Franklin Tchakounte,Marcellin Atemkeng,Rajeswari Pillai Rajagopalan,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 Yaound 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 Materials for Power Electronics, Construction and Environmental Engineering Denis B. Solovev,Zhigang Fang,2023-05-18 Special topic volume with invited peer reviewed papers only *5th International Conference on Materials Science and Industrial Applications (MSIA 2023)* Zhibin You,Zhigang Fang,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 **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 **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

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