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A Review of Design and Development of Novel Techniques Harnessing in Data Mining for Clustering and Classification

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Abstract. The title of the Research topic is "Design and Development of Novel Techniques for Clustering and Classification of Data" In this research proposed to develop a Novel techniques, techniques in terms of applying and to develop new Algorithm in Data Mining Techniques, before applying techniques it required some input database without database it is not possible, therefore preliminary it is proposed to use some dairy related as well as veterinary related datasets for making clusters and classification techniques. Clustering the data, people can obtain the data distribution, observe the character of each cluster and make further study on particular clusters. In addition, cluster analysis usually acts as the preprocessing of other data mining operations. Therefore, Cluster analysis has become a very active research subject in data mining. Data mining is a new technology developing with database and Artificial intelligence. It is processing procedure of extracting credible, novel, effective and understandable patterns from database. Cluster analysis is an important data mining technique used to find data segmentation and pattern information. As the development of data mining a number of clustering methods have been founded, The Study of clustering techniques from the perspective of statistics based on the statistical methods with the computer algorithm techniques and introduces the existing excellent statistical methods including factor analysis, Correspondence analysis and functional data analysis into data mining. The present study is undertaken to develop a Data Mining workflow using clustering and classification of data to solving clustering problem as well as extracting potentially interesting association rules.

Keywords: Data Mining, Clustering, Classification, KNN, Weka, K-Means, Matlab, ISODATA, SRIDHCR, HDFS