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Investigating Application and Challenges of Big Data Analytics with Clustering

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Abstract:
Very large volumes of data analytics study the uncovering of hidden patterns, interplay, and other discoveries. Today's technology enables data analyzing and obtaining answers practically quickly- with more conventional solutions for business intelligence, an endeavor that is longer and less effective. The demand for big data analytics has been increasing on regular basis due to the increase in engagement of users. The role of clustering is to make the big data analytic system manageable. This paper has focused on several applications that are based on clustering and big data analytics. The uses of this technology have been increasing rapidly for distance learning, health care, and IoT environment. The issues in the area of clustering and big data are also considered in this research after considering some existing researches in the relevant field. The present research has made use of an advanced mechanism to make dynamic clusters by making use of the K-mean mechanism in order to perform big-data analytics.

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I. Introduction

Big data has been the notion for many years and now days many of the companies realized that they can use data analytics and get tremendous value if they collect all the data that flows into their companies. Everybody used basic analysis [1] in the 1950s- just figures in a table that were manually checked – to identify insights and patterns, however, decades before everyone spoke of this phrase "big information". However, efficiency and efficiency are the emerging advantages of big data analytics. While a few years ago, a company had collected the necessary data, carried out analytics and uncovered information for future choices, nowadays businesses is able to find insights into instantaneous judgments. It provides firms a competitive advantage they did not previously have to work quicker - remain agile. Big Data analytics is a procedure used to draw valuable insights like hidden patterns, undiscovered connections, trends in the market and the preferences of customers. Big data analytics has many benefits – among other things, it may be used to make better decisions to avoid fraudulent actions.

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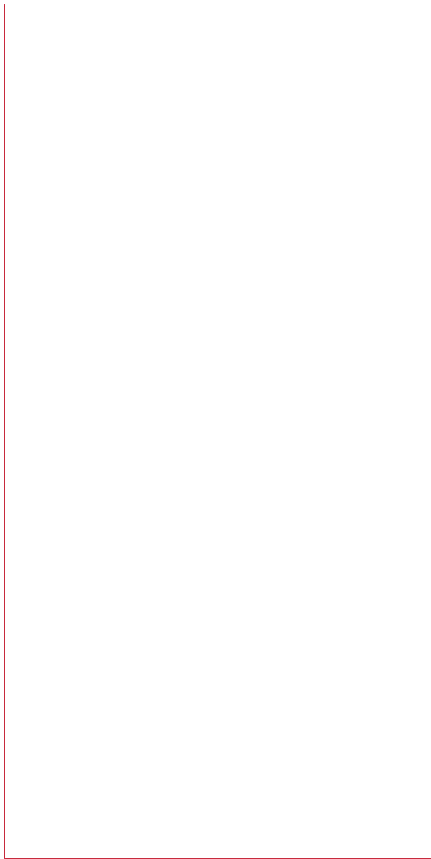
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