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A Review on data mining techniques and applications

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Abstract:

Data mining, also referred to as Knowledge Discovery in Databases (KDD), is a methodological process aimed at uncovering concealed patterns and insights from extensive databases and data repositories. It facilitates data exploration, analysis, and visualization on a large scale, devoid of predefined hypotheses. Central to its operation is the utilization of modeling techniques for predictive purposes. A plethora of algorithms and tools exist to support these endeavors. The scope of data mining extends across diverse domains, spanning from business to medicine to engineering. This paper offers an overview of data mining methodologies, models, tasks, applications, key challenges, and future research directions, focusing on select domains where data mining technologies find wide-ranging applications.

Keywords:

Data mining, Knowledge discovery in databases, Data mining applications.