

# A Study on Patterns of Various Data Mining Techniques and Applications

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## ABSTRACT

*The paper talks about few of the information mining strategies, calculations and a portion of the associations which have adjusted information mining innovation to improve their organizations and discovered the outcomes. Many real life sequence databases develop steadily. It is unfortunate to mine consecutive designs without any preparation each time when a little arrangement of groupings develops, or when some new successions are included into the database. In this examination, we build up an effective calculation; there are a decent number of databases created by various researches bunch for different surface investigations, in the field of restorative investigation, apply autonomy, acknowledgment, examination, picture handling, and so on. In any case, till-to-date, there is no thorough works covering the significant databases and break down these in different points of view. In this paper, we consider this significant assignment with the goal that it winds up accommodating for a specialist to pick and assess having critical assessing angles as a primary concern.*

**Keywords:** *Incremental mining, buffering pattern, reverse pattern matching, shared projection, sequential pattern mining algorithm, sequence data-base.*

## 1. Introduction

Data mining techniques in speech recognition helps in the areas of prediction, search, explanation, learning, and language understanding. These techniques are also very essentials for searching through large volumes of audio warehouses to find information, documents, and news. Thus data mining technology with speech is an advanced and essential research field. They found that reasonably good classification accuracies could be achieved by selecting appropriate features. They obtained accuracies of up to 100% for classification of healthy versus pathology voice using random forest classification for female and male recordings. These results may assist in the feature development of automated detection systems for diagnosis of patients with symptoms of pathological voice.

Certainly, the sound acoustic analysis will have more applications and usages in various fields of science, particularly in interdisciplinary sciences, some of which can be observed nowadays. As an instance, they can discuss the analysis of speaker's emotions or identification of laryngeal diseases, using audio signals. It is suggested that researchers focus their attention on these topics more than ever to make an important contribution to exploring acoustic data . Text analytics which is considered to be the next generation of Big Data, now much more commonly recognized as mainstream analysis to gain useful insight from millions of opinion shared on social media. The video, audio and image analytics technique has scaled with advances in machine vision, multi-lingual speech recognition and rules-based decision engines due to the intense interest existence of real time data of rich image and