

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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Project Report On

**“Efficient Searching Strategy for large database of
KPTCL using Bitmap Indexing”**

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In

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ABSTRACT

Data mining is a powerful new technology with great potential to help companies focus on the most important information in the data they have collected about the behavior of their customers and potential customers. It discovers information within the data that queries and reports can't effectively reveal. It is the nontrivial extraction of implicit, previously unknown, and potentially useful information from data.

Data mining tools can answer business questions that traditionally were too time consuming to resolve. They scour databases for hidden patterns, finding predictive information that experts may miss because it lies outside their expectations.

There are different techniques used for improving the query performance. Some of them are partitioning and aggregation. Indexing is also one of the techniques used for improving the query performance. In indexing technique, we are trying to reduce number of data block access in main memory. There are different types of indexing techniques and Bitmap indexing is one of the efficient indexing techniques used in searching queries.

Bitmap indexing has been touted as a promising approach for processing complex adhoc queries in read-mostly environments, like those of decision support systems. Nevertheless, only few possible bitmap schemes have been proposed in the past and very little is known about the space-time tradeoff that they offer.

In this work we are going to develop BitStreamMask and MIPSearh algorithms for query optimization and to reduce the storage space for large database which yields high efficiency. The different experiments conducted and their results are tabulated.