
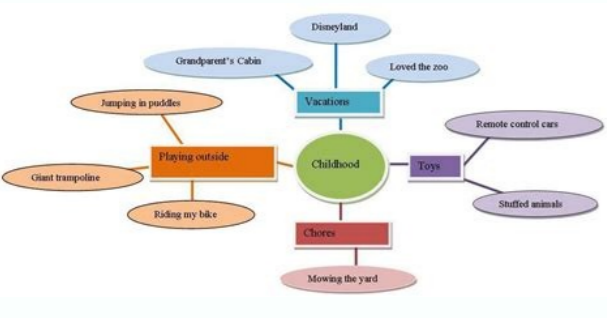


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Classic data mining tasks

- **Classification:** finding patterns that can classify future (new) data into known classes
- **Association rule mining:** mining any rule of the form $X \rightarrow Y$, where X and Y are sets of data items. E.g., Cheese, Milk \rightarrow Bread (sup = 95%, conf = 80%)
- **Clustering:** identifying a set of similar groups in the data
- **Sequential pattern mining:** A sequential rule $A \rightarrow B$ says that event A will be immediately followed by event B with a certain confidence



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CLUSTERING AND REGRESSION TECHNIQUES FOR STOCK PREDICTION

Bini B.S^{a,*}, Tessy Mathew^b

^aDepartment of computer science and technology, Marhaselil College of Engineering, Tiruvandram, Kerala, India.
^bDepartment of computer science and technology, Marhaselil College of Engineering, Tiruvandram, Kerala, India.

Abstract

Stock market prices keep on varying day by day. It is very difficult to foresee the future value of the market by the sellers and buyers. In this paper, an analysis system which helps the people to identify the more profitable companies using data mining approaches is proposed. The clustering and regression are the two techniques of data mining used here. Validation index is used for analysing the performance of different clustering methods such as partitioning technique, hierarchical technique, model based technique and density based technique.

Among the different clustering techniques experimented, partitioning technique and model based technique give high performance i.e. K-means and EM clustering algorithm respectively. For prediction of future stock price multiple regression technique is used which helps the buyers and sellers to choose their companies from stock.

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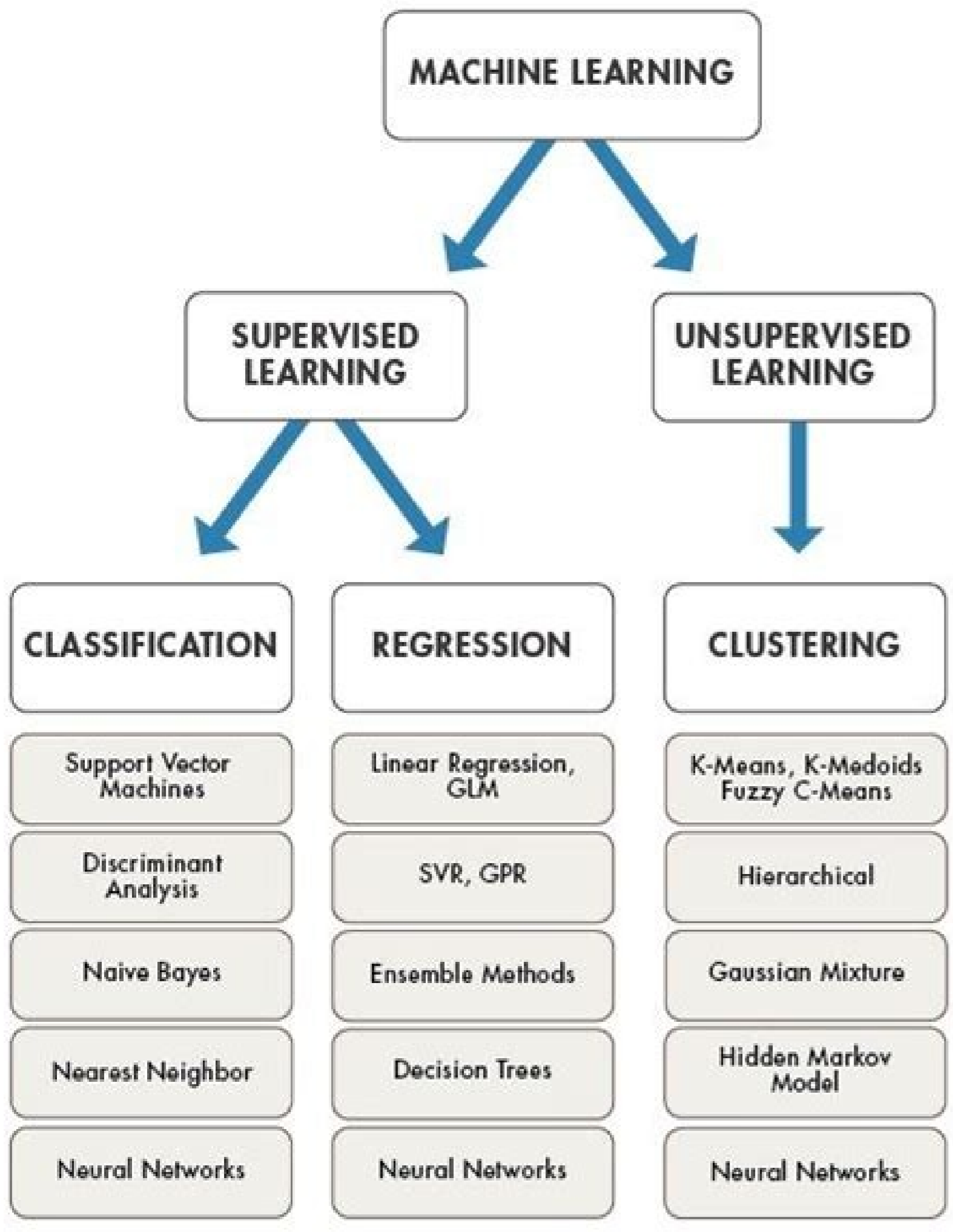
Keywords: K-means, EM, Hierarchical, Density based, Model based, Multiple regression.

1. Introduction

A collection of buyers and sellers of stock is the stock market, where stocks are released by the companies for elevating the capitals and are bought by the investors in order to get a portion of the company. Stock markets are always aggressive. It is very difficult to predict the future stock price of the companies since it keeps fluctuating every day. The booming prediction of a stock's future price could give important profit. In data mining a number of algorithms were designed to overcome this uncertainty.

* Corresponding author. Tel.: +91-7716643083.
 E-mail address: binibus990@gmail.com

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