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DATA MINING TECHNIQUES FOR MANURE RECOMMENDATION

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ABSTRACT

Agriculture plays a vital role in India. More than 60% people are in agriculture field. India is the second largest worldwide in farm outputs. A good deal of agriculture productivity is based on infrastructure, soil quality, micro-climates and local resources. Soil is a main resource to successful agriculture. The original source of the nutrients in the soil to grow crops. Many farmers are facing the problem to choose approximate amount of Manure depends on the soil and climate condition. This paper provides recommendation to increase the productivity by applying data mining techniques in agriculture. Manure Recommendation is based on minerals of soil parameter like Nitrogen, Phosphorus and Potassium by using K-mean clustering, The Nearest neighbor and decision tree and neural network algorithm.

Keywords: Agriculture, Soil Fertility, Manure Recommendation, Data Mining, Clustering, Classification, Neural Network.

I. INTRODUCTION

Data mining (the analysis step of the "Knowledge Discovery in Databases" process, or KDD), an interdisciplinary data mining process is to extract information from a data set and transform it into an understandable structure for further use. Aside from the raw analysis step, it involves database and data management aspects, data preprocessing, model and inference considerations, interestingness metrics, complexity considerations, post-processing of discovered structures, visualization, and online updating.

The actual data mining task is the automatic or semi-automatic analysis of large quantities of data to extract previously unknown interesting patterns such as groups of data records (cluster analysis), unusual records (anomaly detection) and dependencies (association rule mining).

II. TECHNIQUES USED IN DATA MINING

Data Loading: Data loading is the process of copying and loading data or data sets from a source file, folder or application to a database or similar application. It is usually implemented by copying digital data from a source and pasting or loading the data to a data storage or processing utility. Data loading is used in database-based extraction and loading techniques. Typically, such data is loaded into the destination application as a different format than the original source location. For example, when data is copied from a word processing file to a database application, the data format is changed

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