

## SOIL TESTING PROCESS USING DATA MINING TECHNIQUES

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### ABSTRACT

“Data-Mining”, process of finding out unrevealed patterns & interconnection within large amount of data-sets. “Data-Mining” also called as KDD, data/pattern examination, information gathering, etc. In current paper, we propose a restful web service form of automated system, which uses data-mining technique to analyze category of uploaded soil data-sets & provide multiple suggestions such as crops, fertilizers, quantity of water, etc. to achieve better profit. “Naive Bayes” & “K-Nearest Neighbor” algorithms used to predict yield is formalized by classification rule. Collection of soil sample from agricultural field is first step of our implementation. Furthermore tested, multiple nutrients levels are calculated and provided as input to application. After that they provide multiple suggestions such as crops, fertilizers, quantity of water, etc.

**KEYWORDS:** Soil Data Mining, Pattern Mining, Information Archeology & Information Dredging