

IMPLEMENTATION AND EVALUATION OF RULE INDUCTION ALGORITHMS IN TERMS OF ACCURATE AND OPTIMAL RESULTS IN DATA MINING

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ABSTRACT

Data Mining: extracting useful insights from large and detailed collections of data. With the increased possibilities in modern society for companies and institutions to gather data cheaply and efficiently, this subject has become of increasing importance. This interest has inspired a rapidly maturing research field with developments both on a theoretical, as well as on a practical level with the availability of a range of commercial tools.

In this research work we use rule induction in data mining to obtain the accurate results with fast processing time. We using decision list induction algorithm to make order and unordered list of rules to coverage of maximum data from the data set.

Using induction rule we can generate number of rules for training dataset to achieve accurate result with less error rate. We also use induction rule algorithms like confidence static and Shannon entropy to obtain the high rate of accurate results from the large dataset. This can also improves the traditional algorithms with good result.

KEYWORDS: Rule Induction, J-Measure, Decision List Induction, Shannon Entropy