Abstract

Classification is a supervised learning approach, which maps a data item into predefined classes. There are various classification algorithms proposed in the literature. In this paper authors have used four classification algorithms such as J48, Random Forest (RF), Reduce Error Pruning (REP) and Logistic Model Tree (LMT) to classify the "WEATHER NOMINAL" open source Data Set. Waikato Environment for Knowledge Analysis (WEKA) has been used in this paper for the experimental result and they found that Random Forest algorithm classify the given data set better than the other algorithms for this specific data set. In this paper, the performance of classifier algorithms is evaluated for 5 fold cross validation test.

References

- L. Breiman, "Random Forests. Machine Learning", vol. 45(1), pp. 5-32,
Performance Analysis of Classification Tree Learning Algorithms


**Index Terms**

Computer Science

Artificial Intelligence

**Keywords**

Decision Tree J48 Random Forest REP LMT Cross-Validation Supervised Learning and Performance Measure