

Experiment 2.1

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Semester: 6
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Date of Performance: 21/03/23
Subject Code: 20CSP_376

AIM :-

Performing classification by decision tree induction using WEKA tools.

Theory :-

Decision tree algorithm falls under the category of supervised learning. They can be used to solve both regression and classification problems. Decision tree uses the tree representation to solve the problem in which each leaf node corresponds to a class label and attributes are represented on the internal node of the tree. We can represent any boolean function on discrete attributes using the decision tree.

In the Decision Tree, the major challenge is the identification of the attribute for the root node at each level. This process is known as attribute selection. We have two popular attribute selection measures:

1. Information Gain
2. Gini Index

Output :-



