Student Name : .....

Experiment No. : ..... Roll No.: .....

Date : .....

Experiment:- 09

- **Objective:-** Implementation of decision tree classifier using weka explorer.

- **Theory:-** Decision tree learning is one of the most widely, used & practical methods for inductive inference over supervised data.

- **Steps:-**

(1) Open weka explorer & open the file & then select the itemset

(2) Now select classify tab in tool & click on start button and then we can see the result of problem.

(3) Check main result of problem manually & result in weka by right clicking on the result and visualizing tree

- **Result:-** The soln what we get manually & weka both are same.

- **Viva Question:-**

Q1 What is decision tree classifier algo is called eager learning?

→ Decision tree classifier is called an eager learner because it builds the entire model during training before making predictions.

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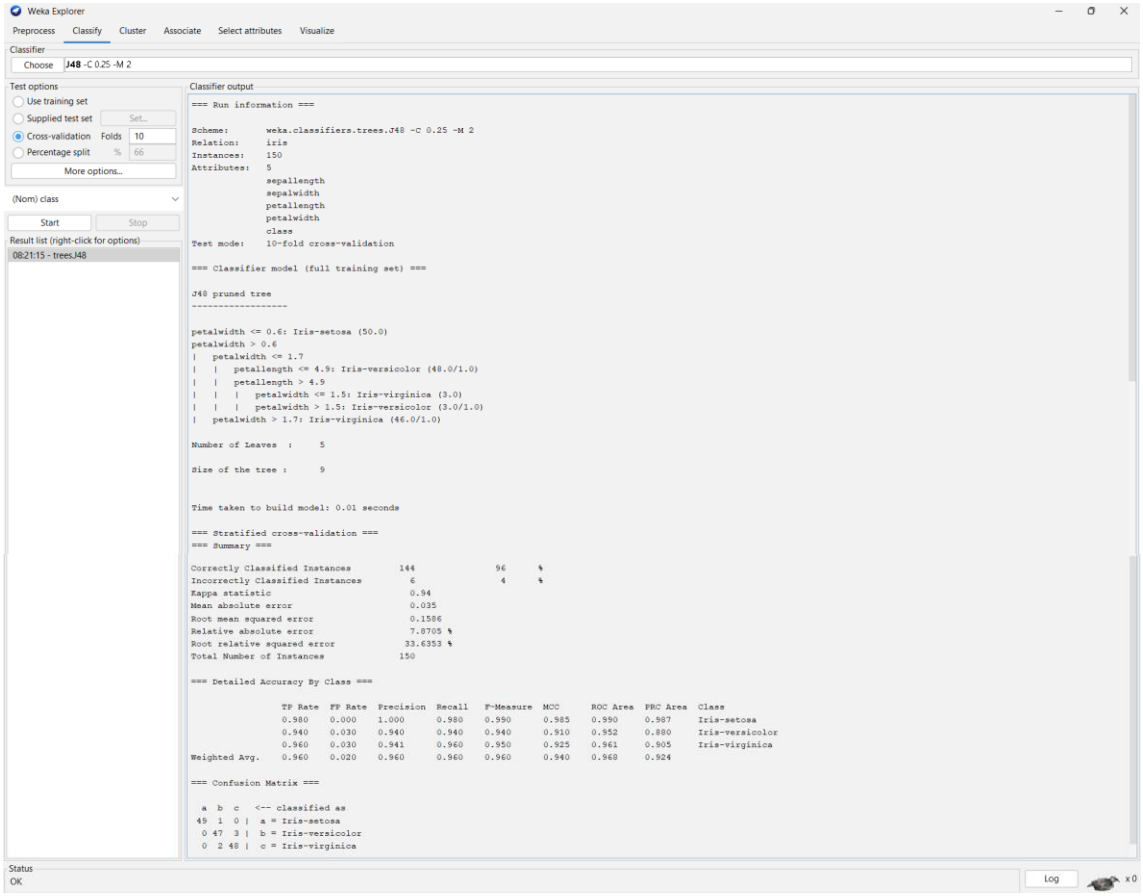
EXPERIMENT 9



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Q2 How is root node selected for creating decision tree?

→ The root node in a decision tree is selected based on feature within the highest information gain to maximize data separation.

Q3 Enlist any 5 application of decision tree classifier.

→ ① Medical diagnosis
② Credit detection
③ fraud detection
④ Customer segmentation
⑤ Spam filtering