Classification Using Decision Trees

Open the "*Churn.txt*" data file. The data refers to churn analysis of telecom customers. Normalize the numerical variables and suitably deal with the correlated variables. The variable "Churn?" is the response variable. Perform the following tasks:

1. Generate a CART decision tree.

2. Generate a C4.5 type decision tree.

3. Compare the two decision trees and discuss the benefits and drawbacks of each with reference to the given problem.

4. Generate the full set of decision rules for the CART decision tree.

5. Generate the full set of decision rules for the C4.5 decision tree.

6. Compare the two sets of decision tree rules and discuss the benefits and drawbacks of each.