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Abstract

REPORT on Construction, Pruning and Testing Decision Trees

REPORT ON - INducing decision trees

Machine Learning Assignment - 2

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# Using R

# **Output – PLEASE NOTE (IMPORTANT)**

* **Constructed and Pruned decision trees have the same structure.**
* **“Assignment2withRattle.R” file has dependency issues with GTK+ that can be averted if run in a Mac or Windows with GTK+ already installed** - This is just to create colorful charts.

|  |  |
| --- | --- |
| **Data Set** | **Accuracy** |
| Set 1 | 73 % |
| Set 2 | 72.667% |

# Using Java

# **Output**

|  |  |  |
| --- | --- | --- |
| **Data Set** | **Accuracy with Information Gain (%)** | **Accuracy with Variance Impurity (%)** |
| Set 1 | 76.64 % | 72.5 |
| Set 2 | 75.85% | 72.33 |