

Assignment2 Part2

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Part 2:

Question 2.1: Machine Learning

Algorithm	Accuracy (correctly classified instances)	Time to build model	Readability
NaiveBayes	92.9722 %	0.01 seconds	This algorithm has the fastest modeling speed and the second highest accuracy among the 4 algorithms. The output model is displayed in tabular form, which clearly and concisely distinguishes attributes, so it has highly readability.
Multilayer Perceptron	93.4114 %	21.57 seconds	This algorithm has the slowest modeling speed of the four algorithms but has the highest accuracy. The output model is presented node by node in a machine learning manner of a neural network, with higher readability.
JRip	92.2401 %	0.11 seconds	The algorithm has the second slowest modeling speed and the third highest accuracy of the four algorithms. The output model has 29 rules, and it has the worst readability.
J48	91.5081 %	0.04 seconds	The algorithm has the second fastest modeling speed of the four algorithms, but the lowest accuracy. The output model is a flowchart-like tree structure, with each level of the tree representing the value of an attribute and the final leaf node pointing to the class of the division, so it has good readability.

The information achieved under default setting.

