J48 Decision Tree (70 Percentage)

	Original Data:	Selected Data:	Adjusted Algorithm:
Preprocessing:		**Calculating the Information gain for each attributes to find out the max 40 ones.**	**Basing on the selected data, set unpruned to true; and minNumObj from 2 to 1**
Build Model Time (s):	**16.97**	**5.94**	**7.21**
Correctly Classified Instances Percentage (%)	**49.0134**	**48.5202**	**50.2624**
Detail Accuracy:	**TP: 0.49** **FP: 0.17** **Precision: 0.484** **Recall:0.49** **F-Measure: 0.484**	**TP: 0.485** **FP: 0.17** **Precision: 0.478** **Recall:0.485** **F-Measure: 0.478**	**TP: 0.503** **FP: 0.16** **Precision: 0.502** **Recall:0.503** **F-Measure: 0.502**

Naive Bayes (70 Percentage)

	Original Data:	Selected Data:	Adjusted Algorithm:
Preprocessing:		**ClassifierSubserEval for Naive Bayes classifier; 28 BestFirst;**	**Set debug from false to yes;**
Build Model Time (s):	0.21	0.04	0.03
Correctly Classified Instances Percentage (%)	47.6667	49.4%	49.3%
Detail Accuracy:	TP: 0.475 FP: 0.166 Precision: 0.475 Recall:0.475 F-Measure: 0.433	TP: 0.494 FP: 0.163 Precision: 0.488 Recall:0.494 F-Measure: 0.489	TP: 0.493 FP: 0.163 Precision: 0.485 Recall:0.493 F-Measure: 0.488

	Original Data:	Selected Data:	Adjusted Algorithm:
Preprocessing:		**Using CfsSubsetEval as Attribute Evaluator; BestFirst as Search Method**	**Set Normalize to true; set Probability Estimate to true**
Build Model Time (s):	137.53	18.04	88.14
Correctly Classified Instances Percentage (%)	33.9	46.6667	47.6667
Detail Accuracy:	**TP: 0.339** **FP: 0.244** **Precision: 0.319** **Recall:0.339** **F-Measure: 0.308**	**TP: 0.467** **FP: 0.188** **Precision: 0.467** **Recall:0.467** **F-Measure: 0.454**	**TP: 0.477** **FP: 0.18** **Precision: 0.468** **Recall:0.477** **F-Measure: 0.466**

SVM (70 Percentage)

Single Perceptron (70 Percentage)

	Original Data:	Adjusted Algorithm:	Adjusted Algorithm:
Preprocessing:		Set to 3 hidden layers	Set to 5 hidden layers
Build Model Time (s):	49.23	138.05	212.3
Correctly Classified Instances Percentage (%)	42.9	48.3	48.533
Detail Accuracy:	TP: 0.429 FP: 0.204 Precision: 0.332 Recall:0.429 F-Measure: 0.303	TP: 0.483 FP: 0.165 Precision: 0.497 Recall:0.483 F-Measure: 0.46	TP: 0.485 FP: 0.167 Precision: 0.502 Recall:0.485 F-Measure: 0.461

Logistic Regression (70 Percentage)

	Original Data:	Selected Data:	Adjusted Algorithm：
Preprocessing:	100 iteration	ChiSquaredAtrributeEvaluator; 40 attributes; 100 iteration	Set Debug to True; Max Iteration 150
Build Model Time (s):	32.02	9.81	16.68
Correctly Classified Instances Percentage (%)	47.933%	48.433%	48.266%
Detail Accuracy:	TP: 0.479 FP: 0.164 Precision: 0.476 Recall:0.479 F-Measure: 0.477	TP: 0.484 FP: 0.17 Precision: 0.479 Recall:0.484 F-Measure: 0.479	TP: 0.483 FP: 0.17 Precision: 0.476 Recall:0.483 F-Measure: 0.477

Random Forest (70 Percentage)

	Original Data:	Selected Data:	Adjusted Algorithm:
Preprocessing:		Information Gain max 40	Set max depth from 0 to 10; Num of trees from 100 to 200;
Build Model Time (s):	10.97	7.8	13.89
Correctly Classified Instances Percentage (%)	48.7	50.3%	51.6667%
Detail Accuracy:	TP: 0.487 FP: 0.17 Precision: 0.488 Recall:0.487 F-Measure: 0.485	TP: 0.503 FP: 0.164 Precision: 0.504 Recall:0.503 F-Measure: 0.501	TP: 0.517 FP: 0.159 Precision: 0.517 Recall:0.517 F-Measure: 0.515

Basing on different result of different model, how to apply them.