

Evaluaton metrics using confusion matrix

Evaluation metrics	SVM (Classification)	Decision Tree (classification)	Random Forest (classification)
what is the overall performance? (Accuracy)	0.78	0.87	0.90
What is the percentage of correctly classified class 0 or Not purchased (Recall)?	0.96	0.89	0.92
What is the percentage of correctly classified class 1 or purchased (Recall)?	0.47	0.84	0.88
what is the percentage of correctly and wrongly classified class 0 or not purchased (precision)?	0.76	0.90	0.93
what is the percentage of correctly and wrongly classified class 1 or purchased (precision)?	0.88	0.82	0.86
What is the overall performance of class 0 or not purchased (F1-Measure)?	0.85	0.90	0.92
What is the overall performance of class 0 or purchased (F1-Measure)?	0.61	0.83	0.87
what is the average performance of Recall?	0.72	0.87	0.90
what is the average performance of precision?	0.82	0.86	0.89
what is the average performance of F1-Measure?	0.73	0.86	0.90
What is the sum of product of proportion rate of each class (Recall)?	0.78	0.87	0.90
What is the sum of product of proportion rate of each class (precision)?	0.81	0.87	0.90
What is the sum of product of proportion rate of each class (F1-Measure)?	0.76	0.87	0.90
Not Purchased: 85 Purchased: 49 Total test: 134			

