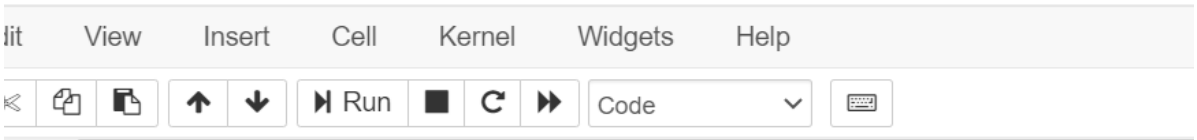
ter Random Forest Classification Last Checkpoint: an hour ago (autosaved)



24]: `print(clf_report)`

	precision	recall	f1-score	support
0	0.93	0.92	0.92	85
1	0.86	0.88	0.87	49
accuracy			0.90	134
macro avg	0.89	0.90	0.90	134
weighted avg	0.90	0.90	0.90	134

: `print(cm)`

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[[78  7]
 [ 6 43]]
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1	What is the overall performance of Random Forest Model?	0.90	
	Generally an **accuracy** of 0.90 means that the model correct about 90% might be considered the best compare to other models.		
3	What is the correct classification of not purchased?		
	The model has a 92% true negative rate for the 'not purchased' class	0.92	
4	Tells us how many of the actual purchase we were able to predict correctly with our model.		
	The model achieved a 47% true positive rate for predicting actual purchases	0.88	
5	What is Precision?	0.93	0.86
	The precision for the 'false' class is 0.93, indicating that 93% of the predicted 'false' instances are correct. For the 'true' class, the precision is 0.86, signifying an 86% accuracy in predicting 'true' instances		
6	The value of recall and precision should be high in this case we use F1 measure as metrics to validate our model perfomance.		
	A high F1-score for the false class (negative class) 92% that the model has good precision and recall for predicting instances of the false class.		
	A lower F1-score for the true class (positive class)87% indicates that the model's performance in predicting instances of the true class also good		

7	Macro average precision: 0.89 (89%) Macro average recall: 0.90 (90%) Macro average F1-score: 0.90 (90%) Macro average calculates the metric independently for each class and then takes the average, giving each class equal weight.		