oyter SVM Classfication Last Checkpoint: 35 minutes ago (unsaved change

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[18]: print(clf_report)						
			precision	recall	f1-score	support
		0	0.76	0.96	0.85	85
		1	0.88	0.47	0.61	49
	ac	curacy			0.78	134
	mac	ro avg	0.82	0.72	0.73	134
				0.78	0.76	134

[19]: print (cm)

[[82 3] [26 23]]

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1	What is the overall performance of SVM Model?	0.78	
	Generally an accuracy of 0.78 means that the model correct about 78% might be considered decent.		
3	What is the correct classification of not purchased?		
	The model has a 96% true negative rate for the 'not purchased' class	0.96	
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	0.47	
5	What is Precision?	0.76	0.88
	The precision for the 'false' class is 76%, indicating that 76% of the predicted 'false' instances are correct. For the 'true' class, the precision is 88%, signifying an 88% accuracy in predicting 'true' instances		
6	The value of recall and precision should be high in this case we need to use F1 measure as metrics to validate our model perfomance explain on the output.		

	A high F1-score for the false class (negative class) 85% 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)61% indicates that the model's performance in predicting instances of the true class is not as good	
7	Macro average precision: 0.82 (82%) Macro average recall: 0.72 (72%) Macro average F1-score: 0.73 (73%) Macro average calculates the metric independently for each class and then takes the average, giving each class equal weight.	

True Positive (TP): Correctly predicted positive instances.
False Positive (FP): Incorrectly predicted positive instances.
True Negative (TN): Correctly predicted negative instances.
False Negative (FN): Incorrectly predicted negative instances.