CS 345	: Data Mining	Names:					
	nment 4						
_							
	•		data sets: vote.arff,				
		•	n when you downloade		o files are		
availat	ole for download on th	ne course website	under today's homewo	ork.			
Do tho	following with voto	anff first and th	on ropest the stone usi	ng colic anff and th	hon		
zoo.a	_	ar'i i iiist aliu tii	en repeat the steps usi	ng corretain i and ti	len		
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1.			iers.bayes.NaiveBayes. Run it				
	using 10-fold cross-validation (use 10-fold cross validation for all tests). Record the error rate						
	(Incorrectly Classified Instances %) in the correct table under NaiveBayes, Single.						
2.	Now use the J48 decision tree algorithm to classify. (classifiers.trees.J48) Record the error rate						
	in the correct table under J48, Single.						
3.	Bagging and Adaboo	stM1 are available under the "Meta" category in WEKA. Please use the					
	following settings ar	nd record the erro	r rate in the correct tak	ole:			
	- Bagging: set num	nIterations to	30. You will run experir	nents with the classifie	r set to		
	trees.J48 and ba	and bayes.naiveBayes.					
	- AdaboostM1: se	oostM1: set numIterations to 30. Set weightThreshold to 1000. You will run					
experiments with the classifier set to the same two algorith				ithms as for Bagging.			
	Base Learner	Single	Bagging	Boosting			
	J48						
vote	NaiveBayes						
				I			
	Base Learner	Single	Bagging	Boosting			
	J48						
colic	NaiveBayes						
	Base Learner	Single	Bagging	Boosting			
zoo	J48						

NaiveBayes

4.	4. Answer the following questions:					
	a.	Which algorithms+data sets are improved by Bagging?				
	h	Which algorithms+data sets are improved by Boosting?				
	D.	which algorithms take sets are improved by boosting:				
	c.	Does Boosting ever hurt performance? If so, try to provide a possible explanation.				