## CS909 Lab 7: Data Mining

February 27, 2014

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versity ID:	
learn a hypothesis in knowing the acc achieve on the und on a set of test dat	have used some concept learning algorithm to h1 from some training data. You are interested curacy that the hypothesis can be expected to derlying population. You assess the hypothesis ta consisting of 45 instances and you observe a lculate the 95% interval for the expected error.
·k:	None —— $Basic$ —— $Good$ —— $Excellent$
set of training data yields the following At what confidence	supervised learning classification algorithms on a and you find out that 10-fold cross validation a accuracies.  e level can you assume that algorithm 1 will out 2? Show your working.
·k:	None —— Basic —— Good —— Excellent
aments:	
	learn a hypothesis in knowing the accarding achieve on the undon a set of test date error of 6.67%. Carriers:  You compare two set of training data yields the following At what confidence

7.3 Ravensworth, Liakata and Clare trained a classifier on predicting the type of a scientific article (e.g. Review, Research etc.) according to PlosOne categories and using as features the distribution of Core Scientific concepts within papers (e.g. Hypothesis, Methods, Conclusion etc.)

Perform the same classification task on the data set AI2013\_papers.csv using random forests, naiveBayes and SVM from the e1071 R package.

Compare classifier performance using 10-fold cross-validation and report appropriate measures. Give confidence levels for the accuracy of the best performing classifier.

If you get a higher F-score on some of the classes please let us know!

Mark:	None — Basic —	— Good —— Excellent
Comments:		

I confirm that the work that has been marked is my own and understand that cases of plagiarism will be subject to Departmental and University regulations.

Student Signature

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