EECS 738 lab3 report Zaikun Xu

1.table of performance for the three model

model with parameters

Parameters\Model	Random Forest		
NumFeature: 1	0.0815		
NumFeature: 10	0.0768		
NumFeature: 100	0.0635		
NumTrees:2	0.0926		
NumTrees:20	0.0771		
NumTrees:200	0.0799		
Parameters\Model	AdaBoostM1		
NumIteration: 10	0.1759		
NumFeature: 50	0.1196		
NumFeature: 100	0.0981		
Classifier: Random Forest	0.0356		
Classifier: Naïve Bayes	0.0459		
Classifier: Random Tree	0.0559		
Parameters\Model	RBF		
NumCluster: 2	0.4243		
NumCluster: 20	0.3249		
NumCluster: 40	0.2384		
Ridge: 1e-10	0.4243		
Ridge: 1e-6	0.4243		
Ridge: 1e-4	0.4243		

best performance model

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		Random Forest	AdaBoostM1	RBF
	Best	NumFeature: 300,	Classifier: random forest,	Clustering seed:
	Parameter Set	numTrees:1, seed:10	numIteration;20,	1,minStdDev:0,2,
			resampling:false,weightThre	numCluster:40, ridge: 1E-
			shold:100	8
Ì	Minimum	0.0441	0.028	0.2368
	training error			