COMP9417 HomeWork 2

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1 Q1

1.1 Part A

DecisionTreeClassifier

Dataset	5%		10%		15%	1	20%	I	25%	I	30%	I	35%	I	40%		45%	Ī	50%	Ī
australian balance-scale hypothyroid	69.92%	Ì	75.04%	İ	69.12%	Ì	74.24%	Ì	74.40%	Ì	75.52%	ĺ	78.08%	Ì	75.68%	Ì	77.92%	İ	76.64%	-

BernoulliNB with priors

Dataset	5%	10%	15%	20%	25%	30%	35%	40%	45%	50%	
australian	•							•			
balance-scale	46.08%	46.08%	46.08%	46.08	8% 46.24%	46.08%	46.08%	46.24%	46.24%	46.08%	
hypothyroid	91.38%	91.81%	92.23%	92.23	3% 92.23%	92.26%	92.23%	92.23%	92.23%	92.23%	

1.2 Part B

I think (3), (5) statements are true.

1.3 Part C

I choose (1).

2 Q2

2.1 Part A

My accuracy score for the test dataset is 82.77%. My accuracy score for the training dataset is 85.65%.