

# COMP9417 HomeWork 2

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## 1 Q1

### 1.1 Part A

DecisionTreeClassifier										
Dataset	5%	10%	15%	20%	25%	30%	35%	40%	45%	50%
australian	72.61%	74.35%	75.36%	77.39%	77.83%	79.71%	83.77%	81.16%	80.72%	83.48%
balance-scale	69.92%	75.04%	69.12%	74.24%	74.40%	75.52%	78.08%	75.68%	77.92%	76.64%
hypothyroid	94.94%	96.31%	97.77%	99.18%	99.20%	99.42%	99.42%	99.52%	99.34%	99.20%

BernoulliNB with priors										
Dataset	5%	10%	15%	20%	25%	30%	35%	40%	45%	50%
australian	73.48%	79.86%	81.45%	80.43%	79.71%	79.86%	79.86%	81.16%	82.17%	81.88%
balance-scale	46.08%	46.08%	46.08%	46.08%	46.24%	46.08%	46.08%	46.24%	46.24%	46.08%
hypothyroid	91.38%	91.81%	92.23%	92.23%	92.23%	92.26%	92.23%	92.23%	92.23%	92.23%

### 1.2 Part B

I think (1), (2) statements are true.