COMP3608 Assignment 2

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1 Introduction

1.1 Aim

this is the aim

2 Data

3 Results & Discussion

All results are 10-fold stratified cross validation accuracy figures in percentage (%).

Numeric	ZeroR	1R	D	1NN	5NN	NB	MLP	SVM	MyNB
Data	Zeron	110	,						
No feature	65.1042 70.8		99	67.8385	74.4792	75.1302	75.3906	76.3021	
selection	05.1042	70.83	33 07.8383						
CFS	65.1042	70.83	33	69.0104	74.4792	76.3021	75.7813	76.6927	
Nominal	DT unpruned		DT pruned		MyDT	Bagg	Boost	RF	
Data									
No feature	on 75		,	75.3906		74.9609	76 1710	73.1771	
selection			•	0.5900		74.8698	76.1719	13.1111	
CFS			7	79.4271		78.5156	78.6458	78.9063	

J48 unpruned tree

```
a = high
| c = high
| \cdot | e = high: yes (82.0/31.0)
| \cdot | e = low: no (50.0/21.0)
c = low: no (29.0/4.0)
a = low
| c = high
| | b = high
| | | e = high
| \ | \ | \ | \ d = high: yes (7.0/3.0)
| \ | \ | \ | \ d = low: no (28.0/4.0)
| \cdot | \cdot | e = low: no (43.0/4.0)
| \ | \ b = low: no (48.0/2.0)
| c = low: no (66.0)
a = \text{very high}
| b = high
| c = high: yes (103.0/16.0)
| c = | c = | c |
| \cdot | \cdot | e = high: yes (12.0/3.0)
| \cdot | \cdot | e = low: no (4.0/1.0)
b = low: no (3.0/1.0)
a = medium
| e = high
| c = high
| \ | \ | \ d = \text{high: yes } (37.0/10.0)
| \ | \ | \ d = low: no (80.0/33.0)
| c = low: no (30.0/3.0)
| e = low: no (146.0/17.0)
J48 pruned tree
a = high
| c = high
| \cdot | e = high: yes (82.0/31.0)
| \cdot | e = low: no (50.0/21.0)
c = low: no (29.0/4.0)
a = low: no (192.0/14.0)
a = \text{very high: yes } (122.0/24.0)
a = medium
```

```
 \begin{array}{l} \mid e = high \\ \mid \mid c = high \\ \mid \mid \mid d = high: \ yes \ (37.0/10.0) \\ \mid \mid \mid d = low: \ no \ (80.0/33.0) \\ \mid \mid c = low: \ no \ (30.0/3.0) \\ \mid e = low: \ no \ (146.0/17.0) \end{array}
```

3.1 Feature Selection

3.2 Comparison of Classifiers

4 Conclusion

conclusion

5 Reflection