

Laboratory Six – WEKA

Part I:

Table 1. Accuracy of IBk Classification.

DataSet	K = 1	K= 3	K = 4
letter	96.03	95.62	95.51
segment	97.14	96.02	95.63
waveform-5000	73.62	77.70	78.94

Table 2. Accuracy of J48 Classification.

DataSet	J48(M=2)	J48(M=4)	AdaboostM1+J48
letter	87.98	86.56	95.54
segment	96.93	96.06	98.58
waveform-5000	75.08	75.82	80.68

Table 3. Accuracy of NaiveBayes(all default) Classification.

DataSet	Accuracy (%)
letter	64.12
segment	80.21
waveform-5000	80.00

Part II:

Table 4. SSE of SimpleKMeans Clustering

- *letter* ($K1 = 11$, $K2 = 24$, $K3 = 38$)
- *segment* ($K1 = 3$, $K2 = 5$, $K3 = 10$)
- *waveform-5000* ($K1 = 2$, $K2 = 3$, $K3 = 5$)

Dataset	K = K1	K = K2	K = K3
letter	16513.56	9824.97	5132.69
segment	2173.14	1296.73	759.97
waveform-5000	5465.74	3846.65	3432.81