COMP 9517 Lab 3

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1.1 Accuracy

The accuracy is 0.95

So we can find that the accuracy of the recognition performance is 0.95

1.2 confusion matrix

[[109	0	0	0	0	0	2	0	0	0]	
[0	93	1	0	0	0	0	0	0	0]	
[0	1	76	0	0	0	0	1	2	1]	
[0	2	0	107	0	1	1	1	0	0]	
[0	2	0	0	95	0	2	0	0	6]	
[0	0	0	3	2	99	0	0	0	1]	
[0	0	0	0	0	1	97	0	0	0]	
[0	5	0	0	0	0	0	90	0	3]	
[0	2	0	2	0	2	0	0	102	3]	
[0	0	0	0	2	1	0	1	0	81]]	

The confusion matrix for the recognition performance is shown above.

1.3 per-class precision and recall

	precision	recall	f1-score	support	
0	1.00	0.98	0.99	111	
ĭ	0.89	0.99	0.93	94	
2	0.99	0.94	0.96	81	
3	0.96	0.96	0.96	112	
4	0.96	0.90	0.93	105	
5	0.95	0.94	0.95	105	
6	0.95	0.99	0.97	98	
7	0.97	0.92	0.94	98	
8	0.98	0.92	0.95	111	
9	0.85	0.95	0.90	85	
micro avg	0.95	0.95	0.95	1000	
macro avg	0.95	0.95	0.95	1000	
weighted avg	0.95	0.95	0.95	1000	

The result of precision and rec all I got is shown above