

COMP 9517 Lab3

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The results:

Accuracy: 0.927

Confusion matrix:

```
[[99 0 0 0 0 0 1 0 0 0]
 [ 0 98 1 0 1 0 0 0 0 0]
 [ 2 3 87 3 1 0 2 0 2 0]
 [ 0 1 1 92 0 1 0 2 1 2]
 [ 0 1 0 0 90 0 1 0 0 8]
 [ 2 1 0 2 2 89 2 0 0 2]
 [ 0 0 0 0 0 1 99 0 0 0]
 [ 0 1 0 0 2 0 0 95 0 2]
 [ 0 3 1 2 1 2 3 0 86 2]
 [ 1 0 0 1 6 0 0 0 0 92]]
```

Precision: [0.95192308 0.90740741 0.96666667 0.92 0.87378641
0.95698925 0.91666667 0.97938144 0.96629213 0.85185185]

Recall: [0.99 0.98 0.87 0.92 0.9 0.89 0.99 0.95 0.86 0.92]

And the figure is as follow:

```
Accuracy: 0.927
Confusion matrix:
[[99 0 0 0 0 0 1 0 0 0]
 [ 0 98 1 0 1 0 0 0 0 0]
 [ 2 3 87 3 1 0 2 0 2 0]
 [ 0 1 1 92 0 1 0 2 1 2]
 [ 0 1 0 0 90 0 1 0 0 8]
 [ 2 1 0 2 2 89 2 0 0 2]
 [ 0 0 0 0 0 1 99 0 0 0]
 [ 0 1 0 0 2 0 0 95 0 2]
 [ 0 3 1 2 1 2 3 0 86 2]
 [ 1 0 0 1 6 0 0 0 0 92]]
Precision: [0.95192308 0.90740741 0.96666667 0.92 0.87378641 0.95698925
 0.91666667 0.97938144 0.96629213 0.85185185]
Recall: [0.99 0.98 0.87 0.92 0.9 0.89 0.99 0.95 0.86 0.92]
[Finished in 4.3s]
```