CSC311 A3 Printed Outputs

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Dec 8 2020

Question 1(f)

```
1 2.2655064777130717e-17
```

Question 2(a)

```
Accuracy of QDA on small training set: 1.0
Accuracy of QDA on full test set: 0.1352
```

Question 2(b)

```
Maximum Validation accuracy: 0.2478
Corresponding training accuracy: 0.235
Regularization parameter: 8
```

Question 2(d)

```
Maximum Validation accuracy: 0.6938
Corresponding training accuracy: 0.93
Value of K: 7
```

Question 2(f)

```
Max Training accuracy over all combinations: 0.8545
Corresponding training accuracy: 0.985
Corresponding reg_param: 0.25
Corresponding value of K: 18
```

Question 3(b)

```
Validation accuracy of the base classifier: 0.2486
Validation accuracy of the bagged classifier of 50 resamples:
0.5243
```

Question 3(f)

```
Validation accuracy of the base classifier: 0.3825
Validation accuracy of the bagged classifier of 200 resamples:
0.8382
```

Question 3(h)

Max bagged validation accuracy 0.8497

Question 4(b)

```
1 Training accuracy: -3536.4241920183445
2 Test accuracy: -3732.251470247857
```