MET CS 677

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Assignment 7

**SVM Problem**

Question 1

Accuracy rate of linear SVM is 0.4615.

Question 2

|  |  |  |
| --- | --- | --- |
|  | Negative | Positive |
| Negative | 23 | 0 |
| Positive | 11 | 18 |

Question 3

TP rate = 37.93

TN rate = 100

Question 4

Accuracy rate for Gaussian SVM is 0.4615, same accuracy with linear SVM.

Question 5

Accuracy rate for Polynomial SVM is 0.5

**Random forest Problem**

Question 1

Minimum error rate is 0.55769, when N = 2, d = 2

Question 2

|  |  |  |
| --- | --- | --- |
|  | Negative | Positive |
| Negative | 23 | 0 |
| Positive | 29 | 0 |

Question 3

TP rate = 0

TN rate = 100