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CS677

Homework 11, SVM

**Question 1:**

Year 2 SVM Linear accuracy: 42.0%

**Question 2:**

Year 2 confusion matrix:

Predicted Red

Actual

Green 29

Red 21

**Question 3:**

Year 2 True positive rate: 0.0%

Year 2 True negative rate: 100.0%

**Question 4:**

Gaussian SVM resulted in a higher accuracy than linear for year 2

Gaussian SVM year 2 accuracy: 78.0%

**Question 5:**

Polynomial SVM resulted in a higher accuracy than linear for year 2

Polynomial SVM year 2 accuracy: 72.0%

**Question 6:**

For year 2 of the Chipotle stock, the SVM trading strategy ($73.15) resulted in a lower balance at the end of the year than buy-and-hold ($135.18)