Cameron Hartling ID: 007735059

4.7.1 The Stock Market Data

```
Year
                   Lag1
                                                          Lag3
                                                                              Lag4
                   :-4.922000
Min.
      :2001
              Min.
                                  Min. :-4. 922000
                                                     Min. :-4.922000
                                                                         Min. :-4.922000
                                                                                            Min.
                                                                                                  :-4.92200
                                  1st Qu.:-0.639500
1st Qu.:2002
              1st Qu.:-0.639500
                                                     1st Qu.:-0.640000
                                                                         1st Qu.:-0.640000
                                                                                            1st Qu.:-0.64000
Median :2003
              Median : 0.039000
                                  Median : 0.039000
                                                     Median : 0.038500
                                                                         Median : 0.038500
                                                                                            Median : 0.03850
                                  Mean : 0.003919
Mean :2003
             Mean : 0.003834
                                                     Mean : 0.001716
                                                                         Mean : 0.001636
                                                                                            Mean : 0.00561
3rd Qu.:2004 3rd Qu.: 0.596750
Max. :2005 Max. : 5.733000
Volume Today
                                                     3rd Qu.: 0.596750
                                  3rd Qu.: 0.596750
                                                                         3rd Qu.: 0.596750
                                                                                            3rd Qu.: 0.59700
                                  Max. : 5.733000
                                                     Max. : 5.733000
                                                                         Max. : 5.733000
                                                                                           Max. : 5.73300
                                    Direction
Min. :0.3561 Min. :-4.922000
                                    Down:602
1st Qu.:1.2574 1st Qu.:-0.639500
                                    Up :648
Median :1.4229
                Median: 0.038500
Mean :1.4783
                Mean : 0.003138
3rd Qu.:1.6417
                3rd Qu.: 0.596750
      :3.1525
                Max.
```

4.7.2 Logistic Regression

4.7.3 Linear Discriminant Analysis

4.7.6 K-Nearest Neighbors