DATA311 Project

Parsa

2019-03-07

```
test <- read.csv("Admission_Predict_Ver1.1.csv")</pre>
summary (test)
##
      Serial.No.
                      GRE.Score
                                    TOEFL.Score
                                                    University.Rating
##
  Min. : 1.0
                   Min.
                          :290.0
                                   Min. : 92.0
                                                    Min.
                                                          :1.000
  1st Qu.:125.8
                   1st Qu.:308.0
                                   1st Qu.:103.0
                                                    1st Qu.:2.000
## Median :250.5
                   Median :317.0
                                   Median :107.0
                                                    Median :3.000
         :250.5
## Mean
                   Mean
                          :316.5
                                   Mean :107.2
                                                    Mean
                                                          :3.114
                    3rd Qu.:325.0
##
   3rd Qu.:375.2
                                   3rd Qu.:112.0
                                                    3rd Qu.:4.000
##
  Max.
          :500.0
                   Max.
                          :340.0
                                   Max.
                                          :120.0
                                                    Max.
                                                          :5.000
##
        SOP
                        LOR
                                         CGPA
                                                      Research
                                                   Min.
##
  Min. :1.000
                   Min.
                          :1.000
                                   Min.
                                          :6.800
                                                          :0.00
   1st Qu.:2.500
                   1st Qu.:3.000
                                    1st Qu.:8.127
                                                    1st Qu.:0.00
## Median :3.500
                  Median :3.500
                                   Median :8.560
                                                   Median:1.00
## Mean :3.374
                                   Mean :8.576
                   Mean :3.484
                                                   Mean :0.56
## 3rd Qu.:4.000
                   3rd Qu.:4.000
                                   3rd Qu.:9.040
                                                    3rd Qu.:1.00
## Max.
          :5.000
                   Max.
                          :5.000
                                   Max. :9.920
                                                   Max. :1.00
## Chance.of.Admit
## Min.
         :0.3400
## 1st Qu.:0.6300
## Median: 0.7200
## Mean
         :0.7217
   3rd Qu.:0.8200
## Max.
          :0.9700
head(test)
     Serial.No. GRE.Score TOEFL.Score University.Rating SOP LOR CGPA Research
## 1
                                                      4 4.5 4.5 9.65
                     337
                                                                            1
             1
                                  118
## 2
             2
                      324
                                                      4 4.0 4.5 8.87
                                  107
                                                                            1
## 3
             3
                     316
                                  104
                                                     3 3.0 3.5 8.00
                                                                            1
## 4
             4
                     322
                                  110
                                                     3 3.5 2.5 8.67
                                                                            1
## 5
             5
                     314
                                  103
                                                     2 2.0 3.0 8.21
                                                                            0
## 6
             6
                      330
                                 115
                                                     5 4.5 3.0 9.34
     Chance.of.Admit
## 1
               0.92
               0.76
## 2
## 3
               0.72
## 4
               0.80
## 5
               0.65
## 6
               0.90
attach(test)
linear.full <- lm(Chance.of.Admit ~., data=test)</pre>
linear.null <- lm(Chance.of.Admit ~ 1, data=test)</pre>
```

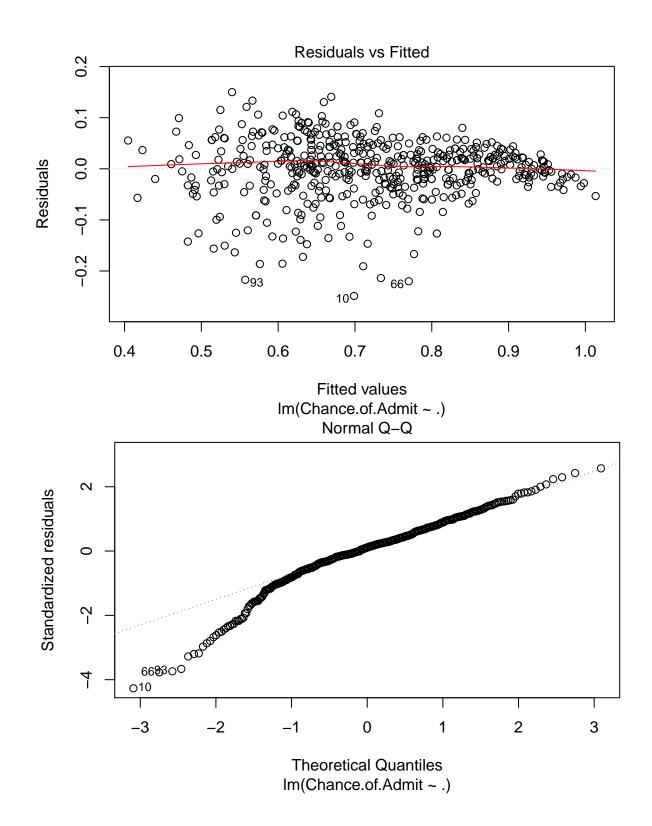
```
linear.rank.full <- lm(University.Rating ~., data=test)</pre>
linear.null.full <- lm(University.Rating ~ 1, data=test)</pre>
```

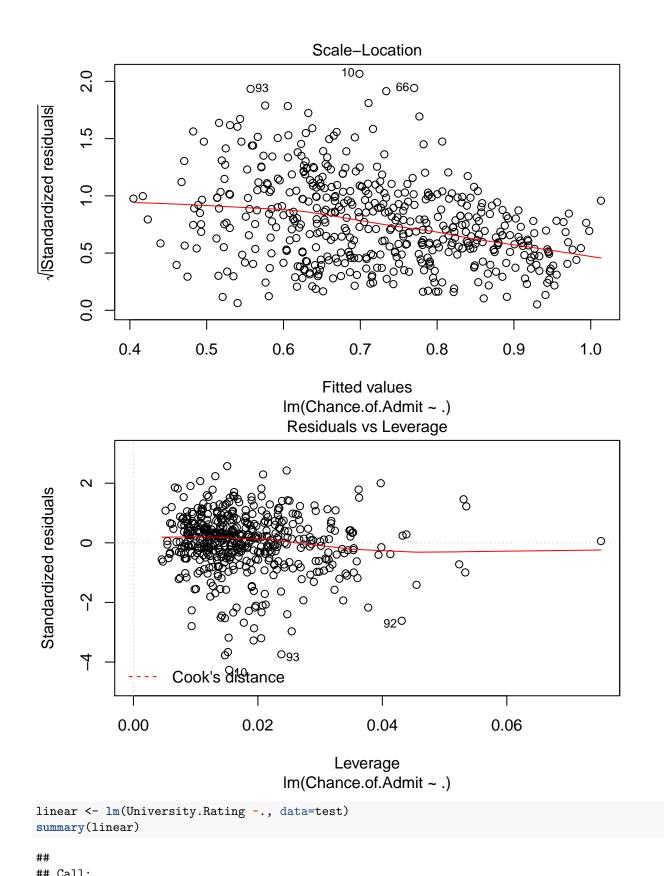
Linear Regression and some plots

Here's a linear model with a few plots.

plot(linear)

```
linear <- lm(Chance.of.Admit ~., data=test)</pre>
summary(linear)
##
## Call:
## lm(formula = Chance.of.Admit ~ ., data = test)
## Residuals:
##
                   1Q
                         Median
                                       3Q
## -0.248847 -0.025984 0.006627 0.036671 0.150015
##
## Coefficients:
                      Estimate Std. Error t value Pr(>|t|)
##
                    -1.3379983 0.1030617 -12.982 < 2e-16 ***
## (Intercept)
## Serial.No.
                     0.0000868 0.0000187 4.641 4.44e-06 ***
## GRE.Score
                     0.0019217 0.0004923
                                            3.903 0.000108 ***
## TOEFL.Score
                     0.0031928 0.0008594
                                           3.715 0.000227 ***
## University.Rating 0.0053164 0.0037273 1.426 0.154405
## SOP
                     0.0045661 0.0045161
                                            1.011 0.312489
## LOR
                     0.0149151
                                0.0040757
                                            3.660 0.000280 ***
## CGPA
                     0.1155561 0.0095282 12.128 < 2e-16 ***
                     0.0225254 0.0064834 3.474 0.000557 ***
## Research
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.05877 on 491 degrees of freedom
## Multiple R-squared: 0.8294, Adjusted R-squared: 0.8266
## F-statistic: 298.4 on 8 and 491 DF, p-value: < 2.2e-16
```

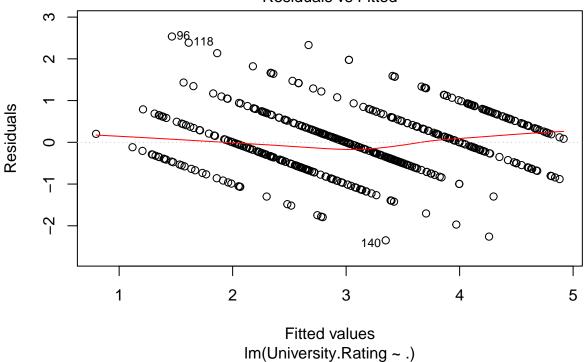


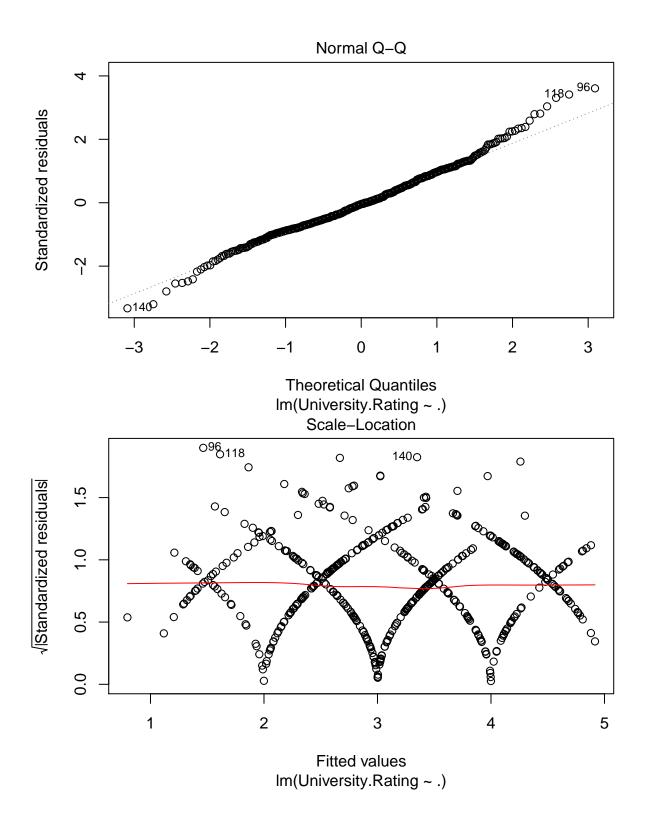


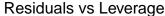
lm(formula = University.Rating ~ ., data = test)

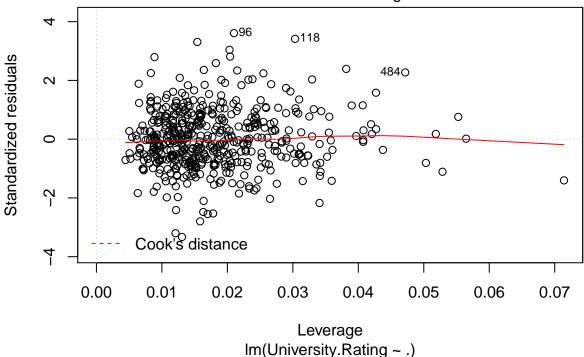
```
##
## Residuals:
##
                 1Q
                      Median
  -2.34889 -0.46404 -0.02909 0.43638
                                       2.53513
##
## Coefficients:
##
                    Estimate Std. Error t value Pr(>|t|)
                  -5.3520556 1.4229030
                                        -3.761 0.000189 ***
## (Intercept)
## Serial.No.
                   0.0001131 0.0002308
                                          0.490 0.624275
## GRE.Score
                   0.0050723 0.0060361
                                          0.840 0.401135
## TOEFL.Score
                   0.0184033 0.0104963
                                          1.753 0.080172 .
                                          8.692 < 2e-16 ***
## SOP
                   0.4420126
                              0.0508516
                              0.0495241
                                          2.779 0.005665 **
## LOR
                   0.1376178
## CGPA
                   0.2666732 0.1306889
                                          2.041 0.041833 *
## Research
                   0.0744728
                              0.0792227
                                          0.940 0.347657
## Chance.of.Admit 0.7761573 0.5441596
                                          1.426 0.154405
##
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.7101 on 491 degrees of freedom
## Multiple R-squared: 0.6205, Adjusted R-squared: 0.6144
## F-statistic: 100.4 on 8 and 491 DF, p-value: < 2.2e-16
plot(linear)
```

Residuals vs Fitted









Variable Selection for Chance of Admittion

By performing backwards selection, we will remove the least significant values until all values are significant.

```
linear <- lm(Chance.of.Admit~ ., data = test )
summary(linear)</pre>
```

```
##
## Call:
## lm(formula = Chance.of.Admit ~ ., data = test)
##
## Residuals:
##
         Min
                          Median
                                         3Q
                        0.006627
##
   -0.248847 -0.025984
                                  0.036671
                                            0.150015
##
## Coefficients:
##
                       Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                     -1.3379983
                                 0.1030617 -12.982 < 2e-16 ***
## Serial.No.
                      0.0000868
                                 0.0000187
                                              4.641 4.44e-06 ***
## GRE.Score
                      0.0019217
                                 0.0004923
                                              3.903 0.000108 ***
## TOEFL.Score
                      0.0031928
                                 0.0008594
                                              3.715 0.000227
  University.Rating
                      0.0053164
                                 0.0037273
                                              1.426 0.154405
## SOP
                      0.0045661
                                 0.0045161
                                              1.011 0.312489
## LOR
                                              3.660 0.000280 ***
                      0.0149151
                                 0.0040757
## CGPA
                      0.1155561
                                 0.0095282
                                             12.128 < 2e-16 ***
                                              3.474 0.000557 ***
## Research
                      0.0225254
                                 0.0064834
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```

```
##
## Residual standard error: 0.05877 on 491 degrees of freedom
## Multiple R-squared: 0.8294, Adjusted R-squared: 0.8266
## F-statistic: 298.4 on 8 and 491 DF, p-value: < 2.2e-16
#Remove University Ranking because it has the highest non significant p value
linear <- lm(Chance.of.Admit~ Serial.No. + GRE.Score + TOEFL.Score + SOP +LOR + CGPA + Research , data
summary(linear)
##
## Call:
## lm(formula = Chance.of.Admit ~ Serial.No. + GRE.Score + TOEFL.Score +
##
      SOP + LOR + CGPA + Research, data = test)
## Residuals:
##
        Min
                         Median
                                       3Q
                   10
## -0.249225 -0.026058 0.005588 0.037182 0.150359
## Coefficients:
                Estimate Std. Error t value Pr(>|t|)
## (Intercept) -1.372e+00 1.004e-01 -13.673 < 2e-16 ***
              8.776e-05 1.871e-05 4.691 3.53e-06 ***
## Serial.No.
## GRE.Score
               1.957e-03 4.922e-04
                                      3.975 8.09e-05 ***
## TOEFL.Score 3.304e-03 8.568e-04
                                     3.857 0.000130 ***
## SOP
               6.945e-03 4.201e-03
                                     1.653 0.098981 .
                                      3.888 0.000115 ***
## LOR
               1.571e-02 4.041e-03
## CGPA
               1.175e-01 9.444e-03 12.437 < 2e-16 ***
               2.302e-02 6.481e-03 3.551 0.000420 ***
## Research
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.05883 on 492 degrees of freedom
## Multiple R-squared: 0.8287, Adjusted R-squared: 0.8262
                 340 on 7 and 492 DF, p-value: < 2.2e-16
## F-statistic:
#Remove SOP has the second highest non significant p value
linear <- lm(Chance.of.Admit~ Serial.No. + GRE.Score + TOEFL.Score +LOR + CGPA + Research , data = test
#All variables are now significant
summary(linear)
##
## lm(formula = Chance.of.Admit ~ Serial.No. + GRE.Score + TOEFL.Score +
##
      LOR + CGPA + Research, data = test)
##
## Residuals:
                         Median
                   1Q
## -0.247948 -0.026442 0.005457 0.036306 0.152463
##
## Coefficients:
                Estimate Std. Error t value Pr(>|t|)
## (Intercept) -1.406e+00 9.844e-02 -14.280 < 2e-16 ***
## Serial.No.
              8.348e-05 1.856e-05
                                     4.498 8.58e-06 ***
## GRE.Score
               1.941e-03 4.930e-04
                                     3.937 9.42e-05 ***
## TOEFL.Score 3.478e-03 8.518e-04
                                     4.083 5.18e-05 ***
```

1.831e-02 3.729e-03 4.911 1.23e-06 ***

LOR

```
## CGPA 1.215e-01 9.132e-03 13.310 < 2e-16 ***
## Research 2.357e-02 6.484e-03 3.635 0.000307 ***
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.05894 on 493 degrees of freedom
## Multiple R-squared: 0.8277, Adjusted R-squared: 0.8256
## F-statistic: 394.8 on 6 and 493 DF, p-value: < 2.2e-16</pre>
```

Variable Selection for Research

```
linear <- lm(Research~ Serial.No. + GRE.Score + TOEFL.Score + University.Rating + SOP +LOR + CGPA, data
#summary(linear)
#Remove LOR
linear <- lm(Research~ Serial.No. + GRE.Score + TOEFL.Score + University.Rating +LOR + CGPA, data = te
summary(linear)
##
## Call:
## lm(formula = Research ~ Serial.No. + GRE.Score + TOEFL.Score +
      University.Rating + LOR + CGPA, data = test)
##
## Residuals:
##
      Min
               1Q Median
                              30
                                     Max
## -1.0861 -0.3358 0.0128 0.2852 0.9840
## Coefficients:
                     Estimate Std. Error t value Pr(>|t|)
                   -6.3639911 0.6526388 -9.751 < 2e-16 ***
## (Intercept)
                                          1.240
## Serial.No.
                    0.0001593 0.0001284
                                                   0.215
## GRE.Score
                    ## TOEFL.Score
                   -0.0051749
                               0.0059488 -0.870
                                                   0.385
                                                   0.129
## University.Rating 0.0365662 0.0240158
                                         1.523
## LOR
                    0.0361827
                               0.0268979
                                          1.345
                                                   0.179
## CGPA
                    0.0377370 0.0650001
                                          0.581
                                                   0.562
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.4084 on 493 degrees of freedom
## Multiple R-squared: 0.3325, Adjusted R-squared: 0.3243
## F-statistic: 40.92 on 6 and 493 DF, p-value: < 2.2e-16
#Remove CGPA
linear <- lm(Research~ Serial.No. + GRE.Score + TOEFL.Score + University.Rating +LOR, data = test)
summary(linear)
##
## Call:
## lm(formula = Research ~ Serial.No. + GRE.Score + TOEFL.Score +
      University.Rating + LOR, data = test)
##
## Residuals:
```

```
1Q Median
                               3Q
## -1.0821 -0.3360 0.0127 0.2866 0.9834
##
## Coefficients:
                      Estimate Std. Error t value Pr(>|t|)
                    -6.4346661 0.6407546 -10.042 < 2e-16 ***
## (Intercept)
## Serial.No.
                     0.0001623 0.0001283
                                           1.265
                                                     0.2064
## GRE.Score
                     0.0225289 0.0029669
                                            7.593 1.57e-13 ***
## TOEFL.Score
                     -0.0041137
                                0.0056572 -0.727
                                                     0.4675
## University.Rating 0.0398047
                                0.0233433
                                            1.705
                                                     0.0888 .
                     0.0405427
                                0.0258109
                                            1.571
                                                     0.1169
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.4082 on 494 degrees of freedom
## Multiple R-squared: 0.332, Adjusted R-squared: 0.3253
## F-statistic: 49.11 on 5 and 494 DF, p-value: < 2.2e-16
#Remove LOR
linear <- lm(Research~ Serial.No. + GRE.Score + TOEFL.Score + University.Rating, data = test )</pre>
summary(linear)
##
## Call:
## lm(formula = Research ~ Serial.No. + GRE.Score + TOEFL.Score +
       University.Rating, data = test)
##
## Residuals:
      Min
                10 Median
                                3Q
                                       Max
## -1.1057 -0.3428 0.0090 0.2871 1.0214
## Coefficients:
                       Estimate Std. Error t value Pr(>|t|)
                    -6.5778405 0.6351775 -10.356 < 2e-16 ***
## (Intercept)
## Serial.No.
                     0.0001785 0.0001280
                                            1.394
                                                     0.1638
## GRE.Score
                     0.0228912 0.0029623
                                            7.727 6.16e-14 ***
## TOEFL.Score
                     -0.0029714 0.0056186 -0.529
                                                     0.5971
## University.Rating 0.0536923 0.0216362
                                             2.482
                                                     0.0134 *
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.4088 on 495 degrees of freedom
## Multiple R-squared: 0.3287, Adjusted R-squared: 0.3233
## F-statistic: 60.59 on 4 and 495 DF, p-value: < 2.2e-16
#Remove TOEFL
linear <- lm(Research~ Serial.No. + GRE.Score + University.Rating, data = test )</pre>
summary(linear)
##
## Call:
## lm(formula = Research ~ Serial.No. + GRE.Score + University.Rating,
##
       data = test)
##
## Residuals:
##
       Min
                 1Q
                      Median
                                   3Q
                                            Max
```

```
## -1.10835 -0.34957 0.00049 0.28952 1.02269
##
## Coefficients:
                      Estimate Std. Error t value Pr(>|t|)
##
## (Intercept)
                    -6.5389338 0.6304444 -10.372
## Serial.No.
                     0.0001855 0.0001272
                                            1.458
                                                    0.1455
## GRE.Score
                     0.0217887 0.0021030 10.361
                                                    <2e-16 ***
## University.Rating 0.0504027 0.0207077
                                            2.434
                                                    0.0153 *
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.4085 on 496 degrees of freedom
## Multiple R-squared: 0.3283, Adjusted R-squared: 0.3242
## F-statistic: 80.81 on 3 and 496 DF, p-value: < 2.2e-16
#Remove Serial Number
linear <- lm(Research~ + GRE.Score + University.Rating, data = test )</pre>
summary(linear)
## Call:
## lm(formula = Research ~ +GRE.Score + University.Rating, data = test)
## Residuals:
                 1Q
                     Median
## -1.14033 -0.35017 0.00906 0.29255 1.00181
## Coefficients:
                     Estimate Std. Error t value Pr(>|t|)
                                0.625451 -10.258
                                                   <2e-16 ***
## (Intercept)
                    -6.415603
## GRE.Score
                                0.002099 10.266
                                                   <2e-16 ***
                     0.021546
## University.Rating 0.050337
                                0.020731
                                          2.428
                                                   0.0155 *
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.4089 on 497 degrees of freedom
## Multiple R-squared: 0.3254, Adjusted R-squared: 0.3227
## F-statistic: 119.9 on 2 and 497 DF, p-value: < 2.2e-16
```

Variable Selection for University Ranking

##

```
linear <- lm(University.Rating~ Serial.No. + GRE.Score + TOEFL.Score + SOP +LOR + CGPA + Research, data
summary(linear)

##
## Call:
## lm(formula = University.Rating ~ Serial.No. + GRE.Score + TOEFL.Score +

## SOP + LOR + CGPA + Research, data = test)
##
## Residuals:
## Min 1Q Median 3Q Max
## -2.34352 -0.46556 -0.03557 0.44046 2.44809</pre>
```

```
## Coefficients:
##
                Estimate Std. Error t value Pr(>|t|)
## (Intercept) -6.4170319 1.2125399 -5.292 1.82e-07 ***
## Serial.No.
              0.0001812 0.0002260
                                      0.802 0.42307
## GRE.Score
               0.0065910 0.0059476
                                      1.108 0.26833
## TOEFL.Score 0.0209679 0.0103520
                                     2.025 0.04336 *
## SOP
               0.4474027 0.0507642
                                      8.813 < 2e-16 ***
## LOR
               0.1498125 0.0488318
                                      3.068 0.00227 **
## CGPA
               0.3578395 0.1141124
                                      3.136 0.00182 **
## Research
              0.0923371 0.0783086
                                     1.179 0.23891
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.7109 on 492 degrees of freedom
## Multiple R-squared: 0.619, Adjusted R-squared: 0.6135
## F-statistic: 114.2 on 7 and 492 DF, p-value: < 2.2e-16
#Remove Serial Number
linear <- lm(University.Rating~ GRE.Score + TOEFL.Score + SOP +LOR + CGPA + Research, data = test )</pre>
summary(linear)
##
## Call:
## lm(formula = University.Rating ~ GRE.Score + TOEFL.Score + SOP +
      LOR + CGPA + Research, data = test)
##
## Residuals:
                 1Q Median
                                   3Q
       Min
## -2.36251 -0.47140 -0.04223 0.45376 2.41297
##
## Coefficients:
##
               Estimate Std. Error t value Pr(>|t|)
                        1.202548 -5.235 2.45e-07 ***
## (Intercept) -6.295220
                                   1.088 0.27705
## GRE.Score
               0.006468
                        0.005943
## TOEFL.Score 0.020128
                         0.010295
                                    1.955 0.05114 .
## SOP
               0.441757 0.050255
                                   8.790 < 2e-16 ***
## LOR
               0.154072 0.048524
                                   3.175 0.00159 **
## CGPA
                                   3.201 0.00146 **
               0.364222
                          0.113793
## Research
              0.096184 0.078133 1.231 0.21890
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.7106 on 493 degrees of freedom
## Multiple R-squared: 0.6185, Adjusted R-squared: 0.6138
## F-statistic: 133.2 on 6 and 493 DF, p-value: < 2.2e-16
#Remove GRE
linear <- lm(University.Rating~ TOEFL.Score + SOP +LOR + CGPA + Research, data = test )</pre>
summary(linear)
##
## Call:
## lm(formula = University.Rating ~ TOEFL.Score + SOP + LOR + CGPA +
##
      Research, data = test)
##
```

Residuals:

```
1Q Median
## -2.37560 -0.47448 -0.03629 0.45065 2.41676
##
## Coefficients:
              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -5.243653   0.715856   -7.325   9.79e-13 ***
## TOEFL.Score 0.025353 0.009109 2.783 0.00559 **
## SOP
              0.440906 0.050259
                                 8.773 < 2e-16 ***
                                  3.126 0.00188 **
## LOR
              0.151540 0.048478
## CGPA
              ## Research
              0.120784 0.074805
                                  1.615 0.10702
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.7107 on 494 degrees of freedom
## Multiple R-squared: 0.6176, Adjusted R-squared: 0.6137
## F-statistic: 159.5 on 5 and 494 DF, p-value: < 2.2e-16
#Remove Research
linear <- lm(University.Rating~ TOEFL.Score + SOP +LOR + CGPA, data = test )</pre>
summary(linear)
##
## Call:
## lm(formula = University.Rating ~ TOEFL.Score + SOP + LOR + CGPA,
      data = test)
##
## Residuals:
                1Q
                    Median
## -2.46231 -0.46269 -0.04935 0.45262 2.39211
##
## Coefficients:
              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -5.62010
                         0.67792 -8.290 1.07e-15 ***
## TOEFL.Score 0.02695
                         0.00907
                                  2.971 0.00311 **
              0.44423
## SOP
                         0.05030
                                  8.832 < 2e-16 ***
                                  3.210 0.00142 **
## LOR
              0.15563
                         0.04849
## CGPA
              0.44360
                         0.10254
                                 4.326 1.83e-05 ***
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.7119 on 495 degrees of freedom
## Multiple R-squared: 0.6155, Adjusted R-squared: 0.6124
## F-statistic: 198.1 on 4 and 495 DF, p-value: < 2.2e-16
```

CV for linear model

```
set.seed(7861)

cvlm <- list()
msecv <- NA
for(i in 1:nrow(test)){
    #Fit the linear model</pre>
```

```
cvlm[[i]] <- lm(University.Rating[-i] ~ TOEFL.Score[-i] + SOP[-i] + LOR[-1] + CGPA[-i])</pre>
# Calculate MSE for ith model
msecv[i] <- (predict(cvlm[[i]], newdata = data.frame(TOEFL.Score[-i] + SOP[-i] + LOR[-1] + CGPA[-i])))</pre>
#msecv[i]
}
## Warning in msecv[i] <- (predict(cvlm[[i]], newdata =</pre>
## data.frame(TOEFL.Score[-i] + : number of items to replace is not a multiple
## of replacement length
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#output mean of MSE
mean(msecv)</pre>
```

[1] 4.549386