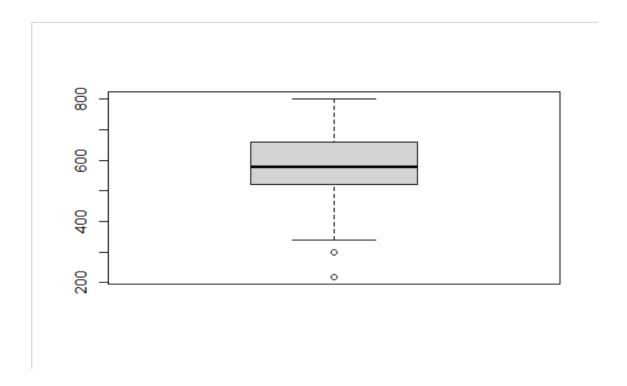
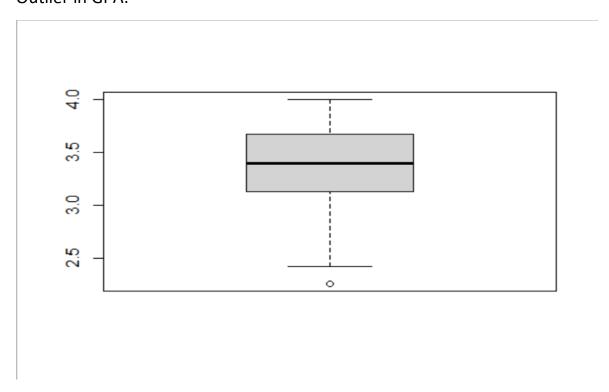
SCREEN SHOTS – COLLEGE ADMISSION PROJECT

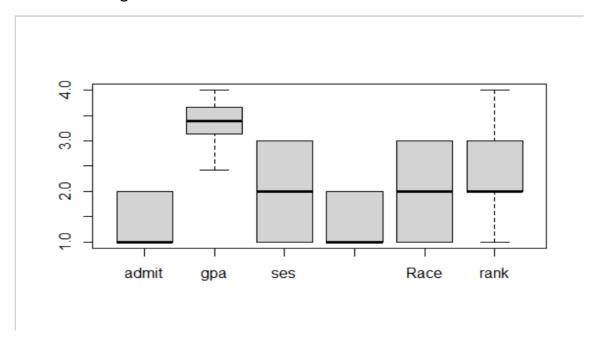
Outlier in GRE:



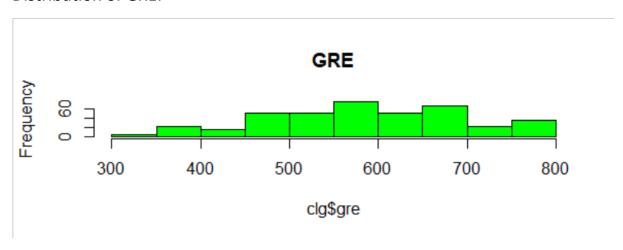
Outlier in GPA:



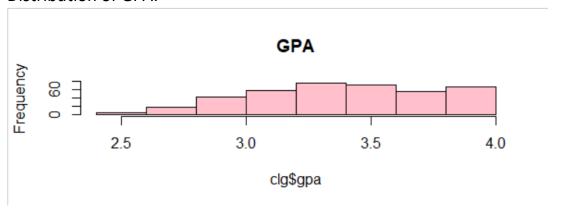
After removing outliers:



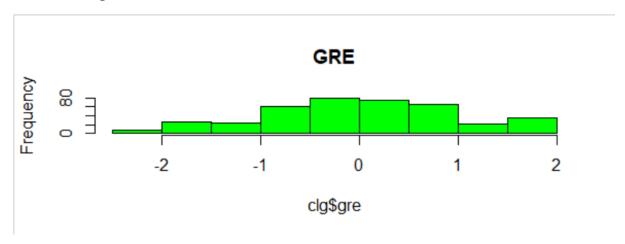
Distribution of GRE:



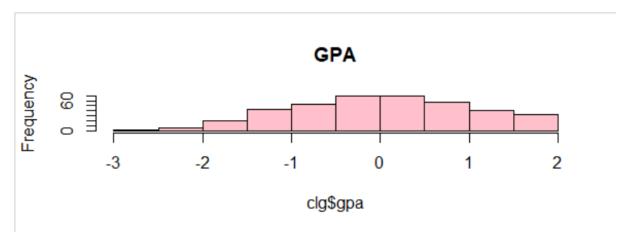
Distribution of GPA:



After scaling GRE:



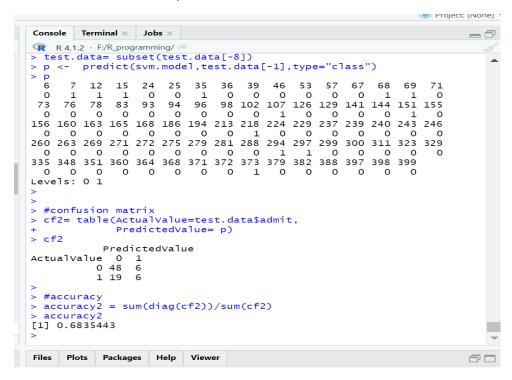
After scaling GPA:



Logistic regression: Accuracy & confusion matrix

```
Console Terminal × Jobs ×
R 4.1.2 · F:/R_programming/
                              0.1264
0.1362
0.1356
                                        -6.238 4.44e-10 ***
2.968 0.00299 **
2.247 0.02463 *
                -0.7885
0.4042
(Intercept)
gpa
gre
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
(Dispersion parameter for binomial family taken to be 1)
Null deviance: 396.00 on 315 degrees of freedom Residual deviance: 375.07 on 313 degrees of freedom AIC: 381.07
Number of Fisher Scoring iterations: 4
> admitPredict = predict(model2,test.data,type ="response")
> test.data$admit1 = ifelse(admitPredict >0.5,1,0)
[1] 0.6708861
> cf1
             PredictedValue
ActualValue 0 1 0 47 7 1 19 6
```

SVM model: Accuracy and confusion matrix

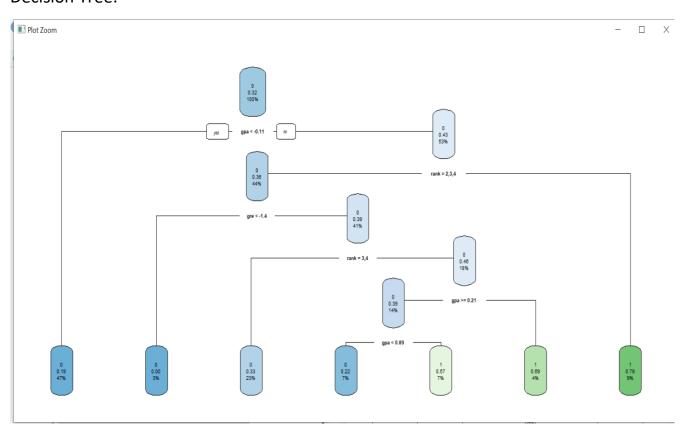


KNN model: Accuracy and confusion matrix

Naïve bayes: Accuracy and confusion matrix

```
Console Terminal × Jobs ×
 R 4.1.2 · F:/R_programming/
     Gender_Male Race rank
                    1
                            2
                                    1
                            2
12
                    0
                                    1
                                   1
4
15
                    1
                            1
24
                    0
                            1
25
                    0
                            2
                                    2
> View(p)
> #prediction
> p1 = predict(NB_Model, test.data)
Warning message:
predict.naive_bayes(): more features in the newdata are provided as t
here are probability tables in the object. Calculation is performed b
ased on features to be found in the tables.
> #confusion matrix
> cf4 = table(p1, test.data$admit)
> cf4
p1 0 1
0 49 20
   1 5 5
> #accuracy
> accuracy4 =sum(diag(cf4))/sum(cf4)
[1] 0.6835443
```

Decision Tree:



Categorisation of data:

