

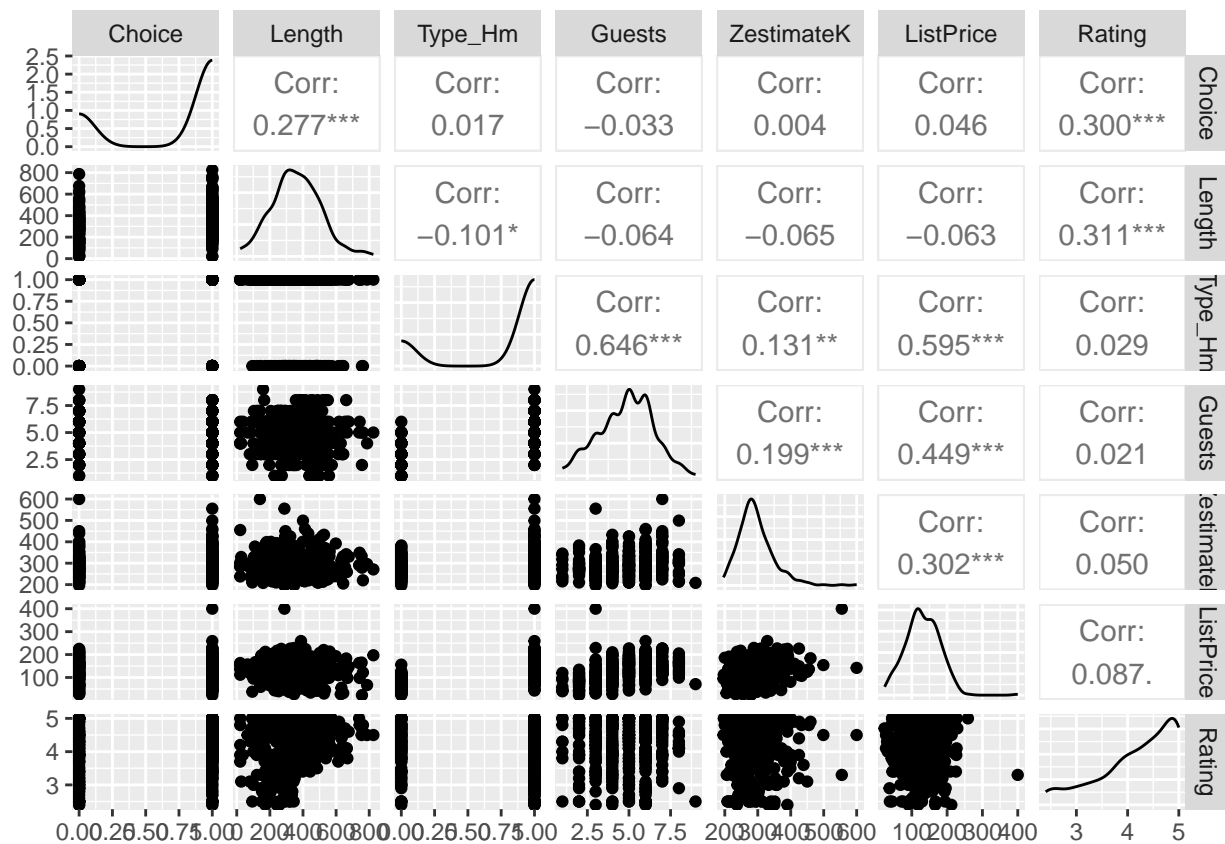
Assignment_3

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```
## Loading required package: ggplot2
```

Step 1



Step 2

```
##  
## Call:  
## glm(formula = Choice ~ Age + Email_25 + AlaskaFF + Tickets, family = binomial,  
##      data = TravelerData)
```

```
##
## Coefficients:
##           Estimate Std. Error z value Pr(>|z|)
## (Intercept) -0.231572   0.278670  -0.831  0.40598
## Age         -0.062544   0.005884 -10.630 < 2e-16 ***
## Email_25     0.432958   0.108813   3.979 6.92e-05 ***
## AlaskaFF     0.321563   0.106236   3.027  0.00247 **
## Tickets     -0.005318   0.051517  -0.103  0.91778
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##      Null deviance: 2515.3  on 2999  degrees of freedom
## Residual deviance: 2352.2  on 2995  degrees of freedom
## AIC: 2362.2
##
## Number of Fisher Scoring iterations: 5

##
## Call:
## glm(formula = Choice ~ Length + Type_Hm + Guests + ZestimateK +
##      ListPrice + Rating, family = binomial, data = HostData)
##
## Coefficients:
##           Estimate Std. Error z value Pr(>|z|)
## (Intercept) -3.0493782   0.9337357  -3.266  0.00109 **
## Length       0.0038268   0.0009550   4.007 6.14e-05 ***
## Type_Hm      0.4050184   0.4316266   0.938  0.34806
## Guests       -0.1363123   0.1011768  -1.347  0.17789
## ZestimateK    0.0001384   0.0023389   0.059  0.95280
## ListPrice     0.0019265   0.0033527   0.575  0.56556
## Rating        0.6753957   0.1636078   4.128 3.66e-05 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##      Null deviance: 470.54  on 399  degrees of freedom
## Residual deviance: 416.67  on 393  degrees of freedom
## AIC: 430.67
##
## Number of Fisher Scoring iterations: 4
```

Step 3

```
##
```

```
##      0      1
##  0 2556  443
##  1      0      1
```

```
##
##      0      1
##  0  31   23
##  1  79 267
```

```
## [1] 0.8523333
```

```
## [1] 0.745
```