

FML Assisgnment

2023-09-11

```
demotest <-read.csv("CARS_1.csv")
print(head(demotest))
```

```
##           car_name reviews_count fuel_type engine_displacement no_cylinder
## 1   Maruti Alto K10           51   Petrol           998             3
## 2   Maruti Brezza           86   Petrol          1462             4
## 3   Mahindra Thar          242   Diesel          2184             4
## 4   Mahindra XUV700         313   Diesel          2198             4
## 5 Mahindra Scorpio-N         107   Diesel          2198             4
## 6   Toyota Fortuner          99   Diesel          2755             4
##   seating_capacity transmission_type fuel_tank_capacity body_type rating
## 1                5      Automatic           27 Hatchback    4.5
## 2                5      Automatic           48      SUV      4.5
## 3                4      Automatic           57      SUV      4.5
## 4                7      Automatic           60      SUV      4.5
## 5                7      Automatic           57      SUV      4.5
## 6                7      Automatic           80      SUV      4.5
##   starting_price ending_price max_torque_nm max_torque_rpm max_power_bhp
## 1       399000      583000         89.0         3500         65.71
## 2       799000     1396000        136.8         4400        101.65
## 3      1353000     1603000        300.0         2800        130.00
## 4      1318000     2458000        450.0         2800        182.38
## 5      1199000     2390000        400.0         2750        172.45
## 6      3240000     4957000        500.0         2800        201.15
##   max_power_rp
## 1          5500
## 2          6000
## 3          3750
## 4          3500
## 5          3500
## 6          3400
```

```
demotest$fuel_tank_capacity
```

```
##   [1] 27.0 48.0 57.0 60.0 57.0 80.0 50.0 37.0 60.0 37.0 44.0 45.0
##  [13] 50.0 54.0 50.0 37.0 55.0 45.0 45.0 37.0 40.0 90.0 60.0 37.0
##  [25] 42.0 60.0 37.0 60.0 45.0 30.0 40.0 32.0 40.0 28.0 89.0 60.0
##  [37]  0.0 60.0 40.0 27.0 45.0 75.0 35.0 40.0 50.0 37.0 45.0 45.0
##  [49] 32.0  0.0 68.0 50.0 45.0  0.0 65.0 63.0 48.0 43.0 60.0 50.0
##  [61] 80.0  0.0 58.0 80.0 75.0 90.0 51.0  0.0  0.0 60.0  0.0 50.0
##  [73] 66.0 73.0 54.0  0.0 60.0 40.0 82.0 40.0 70.0 58.0 54.0  0.0
##  [85] 52.0 59.0 50.0 45.0  0.0 83.0 70.0 35.0 55.0  0.0 80.0  0.0
##  [97] 46.0  0.0  0.0  0.0 70.0 28.0 51.0  0.0  0.0 55.0 90.0 90.0
```

```
## [109] 52.5 35.0 0.0 65.0 61.7 0.0 82.0 35.0 35.0 0.0 0.0 35.0
## [121] 0.0 75.0 65.0 0.0 82.0 0.0 55.0 0.0 90.0 0.0 80.0 0.0
## [133] 66.0 81.0 0.0 80.0 45.0 85.0 90.0 0.0 92.0 73.0 0.0 72.0
## [145] 100.0 74.0 52.0 0.0 83.0 57.0 64.0 0.0 44.0 80.0 55.0 70.0
## [157] 85.0 68.0 0.0 82.0 86.0 78.0 93.0 0.0 68.0 51.0 66.0 75.0
## [169] 85.0 73.0 0.0 0.0 65.0 65.0 0.0 0.0 83.0 80.0 44.0 66.0
## [181] 60.0 93.0 0.0 57.0 0.0 50.0 50.0 0.0 55.0 51.0 66.0 37.0
## [193] 37.0 0.0 0.0 40.0 60.0 60.0 0.0 59.0 60.0 85.0 35.0
```

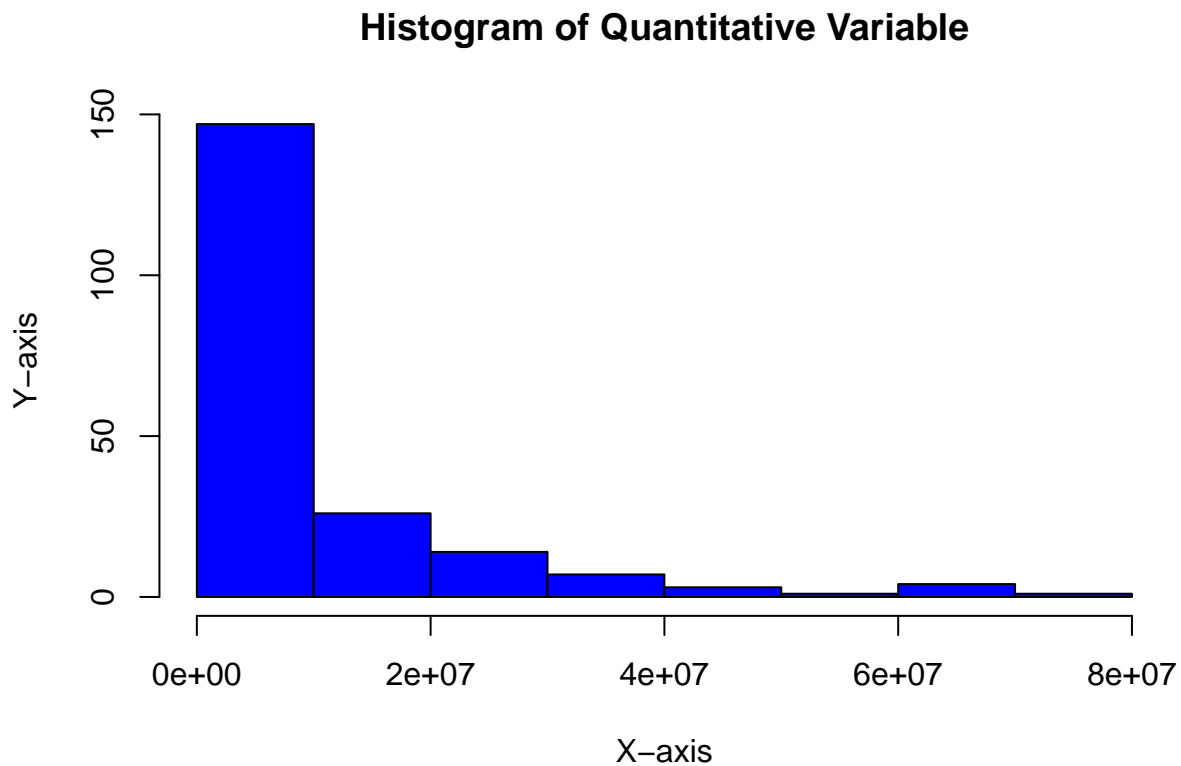
```
table(demotest$transmission_type)
```

```
##
## Automatic Electric Manual
##      160      14      29
```

```
x<-log(demotest$fuel_tank_capacity)
head(x)
```

```
## [1] 3.295837 3.871201 4.043051 4.094345 4.043051 4.382027
```

```
hist(demotest$starting_price,xlab="X-axis",ylab="Y-axis",main="Histogram of Quantitative Variable",col=
```



```
plot(demotest$max_power_bhp,xlab="X-axis",ylab="Y-axis",main="SCATTER PLOT",pch=6,col="orange")
```

