

```
# LINEAR REGRESSION
```

```
library(ggplot2)
```

```
library(caret)
```

```
# load inbuilt data
```

```
data("mtcars")
```

```
set.seed(89)
```

```
cor(mtcars) # co-relation matrix for the data
```

```
sample_index <- sample(1:nrow(mtcars), 0.8 * nrow(mtcars))
```

```
train_data <- mtcars[sample_index, ]
```

```
test_data <- mtcars[-sample_index, ]
```

```
linearModel <- lm(mpg ~ hp + drat + am, data = train_data)
```

```
summary(linearModel)
```