Fundamentals of Machine Learning- Assignment 1

priyachandana kodati

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#Importing the data

```
data =read.csv("C:/Users/chand/Downloads/World_Army_Dataset.csv" )
summary(data)
```

```
##      S.no.          country            activeDuty       paramilitary
##  Min.   :  1.00   Length:168         Min.   :      0   Min.   :      0
##  1st Qu.: 42.75   Class :character   1st Qu.:   9412   1st Qu.:      0
##  Median : 84.50   Mode  :character   Median :  27325   Median :   5400
##  Mean   : 84.50                      Mean   : 119932   Mean   : 143766
##  3rd Qu.:126.25                      3rd Qu.: 123325   3rd Qu.:  31312
##  Max.   :168.00                      Max.   :2185000   Max.   :5889000
##     reserves           total             pop2022
##  Min.   :      0   Min.   :     200   Min.   :     99.4
##  1st Qu.:      0   1st Qu.:   14412   1st Qu.:   4300.1
##  Median :     40   Median :   57450   Median :  11181.0
##  Mean   : 149421   Mean   :  413119   Mean   :  47131.5
##  3rd Qu.:  52700   3rd Qu.:  252125   3rd Qu.:  34543.4
##  Max.   :5000000   Max.   :10522000   Max.   :1448471.4
```

#descriptive statastics

```
mean(data$activeDuty)
```

```
## [1] 119932
```

```
sd(data$pop2022)
```

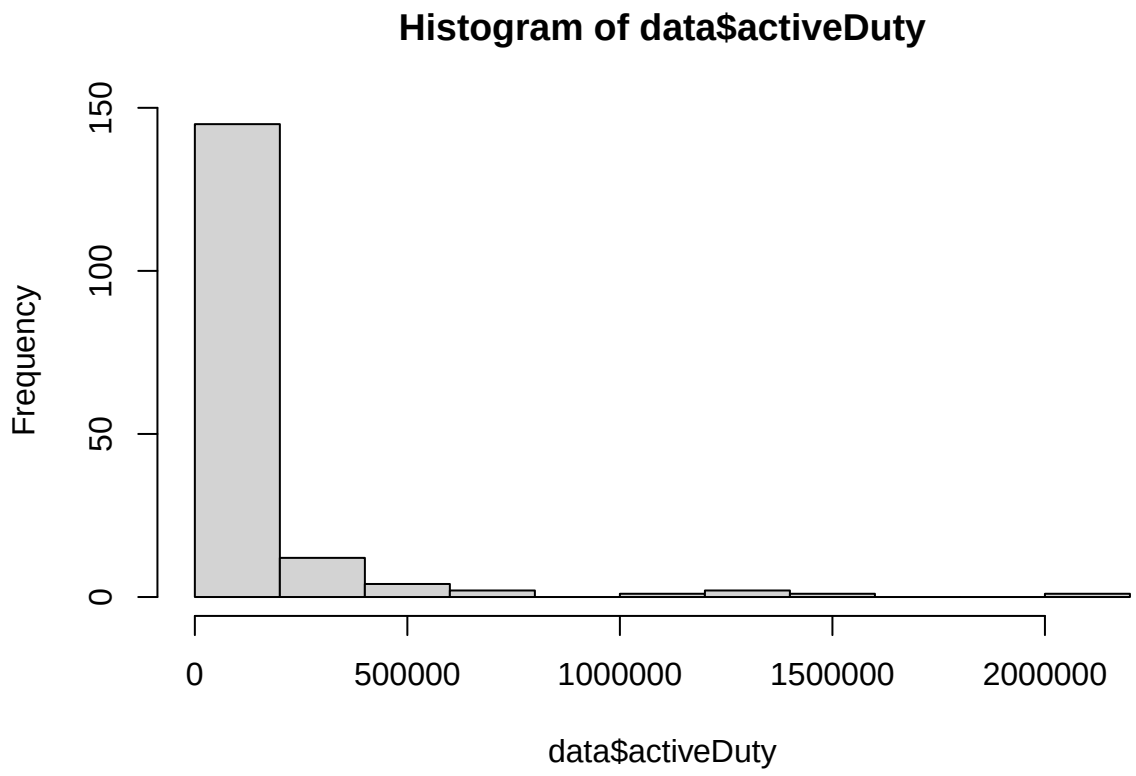
```
## [1] 160175.3
```

```
Countryvariance = sd(data$reserves)*sd(data$reserves)
Countryvariance
```

```
## [1] 275041543933
```

#histogram

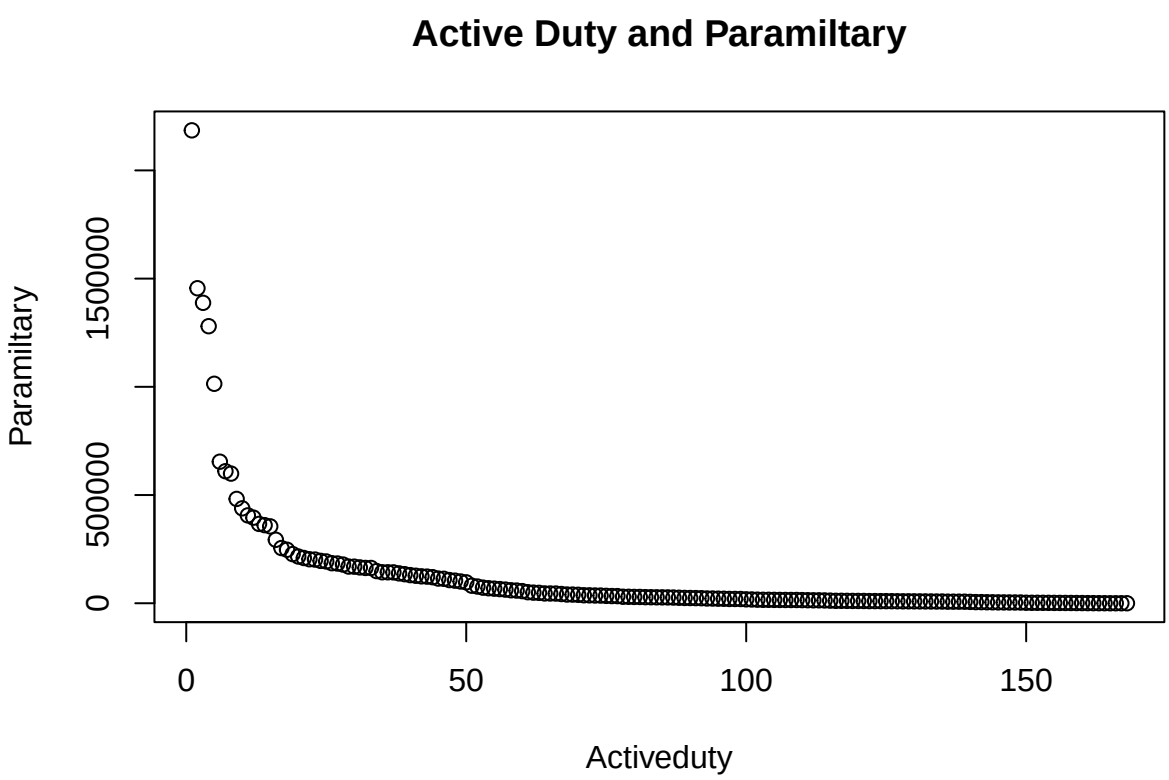
```r
hist(data$activeDuty)
```



#scatterplot

```r
x = data$activeDuty
y = data$Paramiltary

plot(x,y, main = "Active Duty and Paramiltary", xlab= "Activeduty" , ylab = "Paramiltary")
```


Active Duty and Paramiltary
Paramiltary
0
500000
1500000
0
50
100
150
Activeduty