Codes for visualization taken from “Visualization-lecture-slides-notes” slide on Canvas

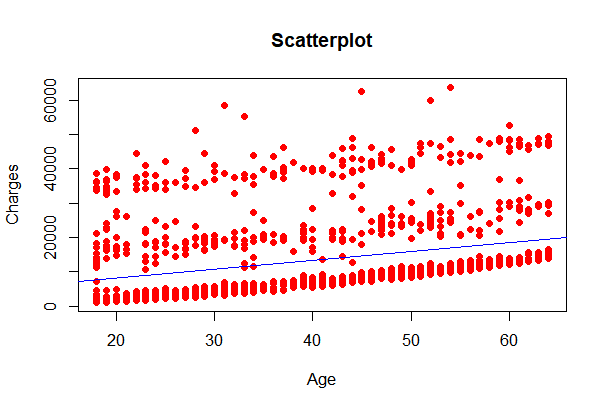
For , Scatter Plot

x <- insurance$age  
y <- insurance$charges

plot(x,y,main = "Age vs Charges",xlab = "Age", ylab = "Charges", pch = 19, frame = T, col =”red”)

model <- lm(y ~ x, data = insurance)

abline(model, col = "blue")



For, Histogram with normal curve

insurance <- read.csv("path/insurance.csv")

y <- insurance$charges

h <- hist(y, 6, main = "Charges Frequency", xlab = "Charges", ylab = "Frequency", col = "Yellow")

x <- seq(0, 60000, 10000)

mn <- mean(insurance)

stdDev <- sd(insurance)

yn <- dnorm(x, mean=mn, sd=stdDev)

box.size <- diff(h$mids[1:2]) \* length(y)

yn <- yn \* box.size

lines(x, yn, col="blue")  
  
