Exploratory\_Data\_Analysis.R

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Mon Aug 24 18:36:58 2015

setwd("C:/Users/Sri/Documents/GitHub/RWD/EMCDSA-E20-007/Review-of-Basic-Data-Analytic-Methods-Using-R/Exploratory Data Analysis")  
########### Exploratory Data Analysis ###############  
# generating descriptive statistics such as summaryu() function, it will help to analyse Magnitude and Range of the data  
# but other operations such as linear relationships, distributions are more difficult to see from descriptive statistics   
  
  
#to detect the pattners and anomalies of the data we need  
#exploratory data analysis with visulaization  
# visulaization will gives us succint and holistic view of the data  
# an imp facet of the initial data exploration, visulaization assesses  
# data cleanliness and suggests potentially important relationship   
# in the data prior to the model planning and building phases  
  
x <- rnorm(50)  
y <- x + rnorm(50, mean = 0, sd = 0.5)   
data <- as.data.frame(cbind(x, y))  
summary(data)

## x y   
## Min. :-1.4563 Min. :-1.7580   
## 1st Qu.:-0.5061 1st Qu.:-0.5246   
## Median : 0.1482 Median : 0.1485   
## Mean : 0.2290 Mean : 0.2862   
## 3rd Qu.: 0.7869 3rd Qu.: 0.9244   
## Max. : 2.6985 Max. : 3.1440

View(data)