KMeans:

library(plyr)

library(ggplot2)

library(cluster)

library(lattice)

library(graphics)

library(grid)

library(gridExtra)

grade\_input = as.data.frame(read.csv("D:/mini proj/Datasets/p.csv"))

grade\_input

kmdata\_orig = as.matrix(grade\_input[,c("Latitude","Longitude","Magnitude")])

kmdata <- kmdata\_orig[,1:2]

kmdata

km <- kmeans(kmdata, 3, 5)

print(km)

plot(kmdata, col = km$cluster)

points(km$centers, col = 1:2, pch =10)

Decision tree

play\_decision <- read.table ("D:/mini proj/Datasets/pre36.csv", header=TRUE, sep=",")

names(play\_decision)

summary(play\_decision)

fit<-rpart (Occur ~ Latitude + Longitude + Magnitude + MMI,

+ method="class"

+ ,

+ data=play\_decision,

+ control=rpart.control(minsplit=1),

+ parms=list(split='information'))

> summary(fit)

rpart.plot(fit,type=4,extra=2,clip.right.labs=FALSE,varlen=0,faclen=0)