

# Clustering

Khang Thai, David Park, Jonathan Ho, David Favela

## Reading in the Dataset

```
airlineClusterData <- read.csv("Invistico_Airline.csv", header=TRUE)
str(airlineClusterData)
```

```
## 'data.frame': 129880 obs. of 23 variables:
## $ satisfaction : chr "satisfied" "satisfied" "satisfied" "satisfied"
## ...
## $ Gender : chr "Female" "Male" "Female" "Female" ...
## $ Customer.Type : chr "Loyal Customer" "Loyal Customer" "Loyal Customer"
## "Loyal Customer" ...
## $ Age : int 65 47 15 60 70 30 66 10 56 22 ...
## $ Type.of.Travel : chr "Personal Travel" "Personal Travel" "Personal Travel"
## "Personal Travel" ...
## $ Class : chr "Eco" "Business" "Eco" "Eco" ...
## $ Flight.Distance : int 265 2464 2138 623 354 1894 227 1812 73 1556 ...
## $ Seat.comfort : int 0 0 0 0 0 0 0 0 0 0 ...
## $ Departure.Arrival.time.convenient: int 0 0 0 0 0 0 0 0 0 0 ...
## $ Food.and.drink : int 0 0 0 0 0 0 0 0 0 0 ...
## $ Gate.location : int 2 3 3 3 3 3 3 3 3 3 ...
## $ Inflight.wifi.service : int 2 0 2 3 4 2 2 2 5 2 ...
## $ Inflight.entertainment : int 4 2 0 4 3 0 5 0 3 0 ...
## $ Online.support : int 2 2 2 3 4 2 5 2 5 2 ...
## $ Ease.of.Online.booking : int 3 3 2 1 2 2 5 2 4 2 ...
## $ On.board.service : int 3 4 3 1 2 5 5 3 4 2 ...
## $ Leg.room.service : int 0 4 3 0 0 4 0 3 0 4 ...
## $ Baggage.handling : int 3 4 4 1 2 5 5 4 1 5 ...
## $ Checkin.service : int 5 2 4 4 4 5 5 5 5 3 ...
## $ Cleanliness : int 3 3 4 1 2 4 5 4 4 4 ...
## $ Online.boarding : int 2 2 2 3 5 2 3 2 4 2 ...
## $ Departure.Delay.in.Minutes : int 0 310 0 0 0 0 17 0 0 30 ...
## $ Arrival.Delay.in.Minutes : int 0 305 0 0 0 0 15 0 0 26 ...
```

## Convert satisfaction into a factor

```
airlineClusterData$satisfaction <- as.factor(airlineClusterData$satisfaction)
```

## Create New Columns Rating Sum & Rating Mean

```
airlineClusterData$ratingSum <- as.numeric(apply(airlineClusterData[,8:21], 1, sum))
airlineClusterData$ratingMean <- c(airlineClusterData$ratingSum/14)
```

# Selecting which columns to use

```
airlineClusterData <- airlineClusterData[,c(4,25,1)]
```

## kNN Clustering

```
set.seed(3)
airlineCluster <- kmeans(airlineClusterData[,1,3],2,nstart = 20)
airlineCluster
```

```
## K-means clustering with 2 clusters of sizes 65817, 64063
##
## Cluster means:
##      [,1]
## 1 51.84191
## 2 26.67412
##
## Clustering vector:
##      [1] 1 1 2 1 1 2 1 2 1 2 1 2 1 2 1 1 2 1 1 2 2 2 1 2 2 1 1 2 2 1 2 2 2 2 1
##      [37] 2 1 2 2 2 2 2 2 1 2 2 1 2 2 2 1 2 2 2 2 2 1 2 2 2 2 2 2 1 1 1 2 1
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## [ reached getOption("max.print") -- omitted 29881 entries ]
##
## Within cluster sum of squares by cluster:
## [1] 4598584 4527788
## (between_SS / total_SS = 69.3 %)
##
## Available components:
##
## [1] "cluster"      "centers"      "totss"        "withinss"     "tot.withinss"
## [6] "betweenss"    "size"         "iter"         "ifault"
```

## Printing out the table to show true/false Positive or Negative

```
table(airlineCluster$cluster, airlineClusterData$satisfaction)
```

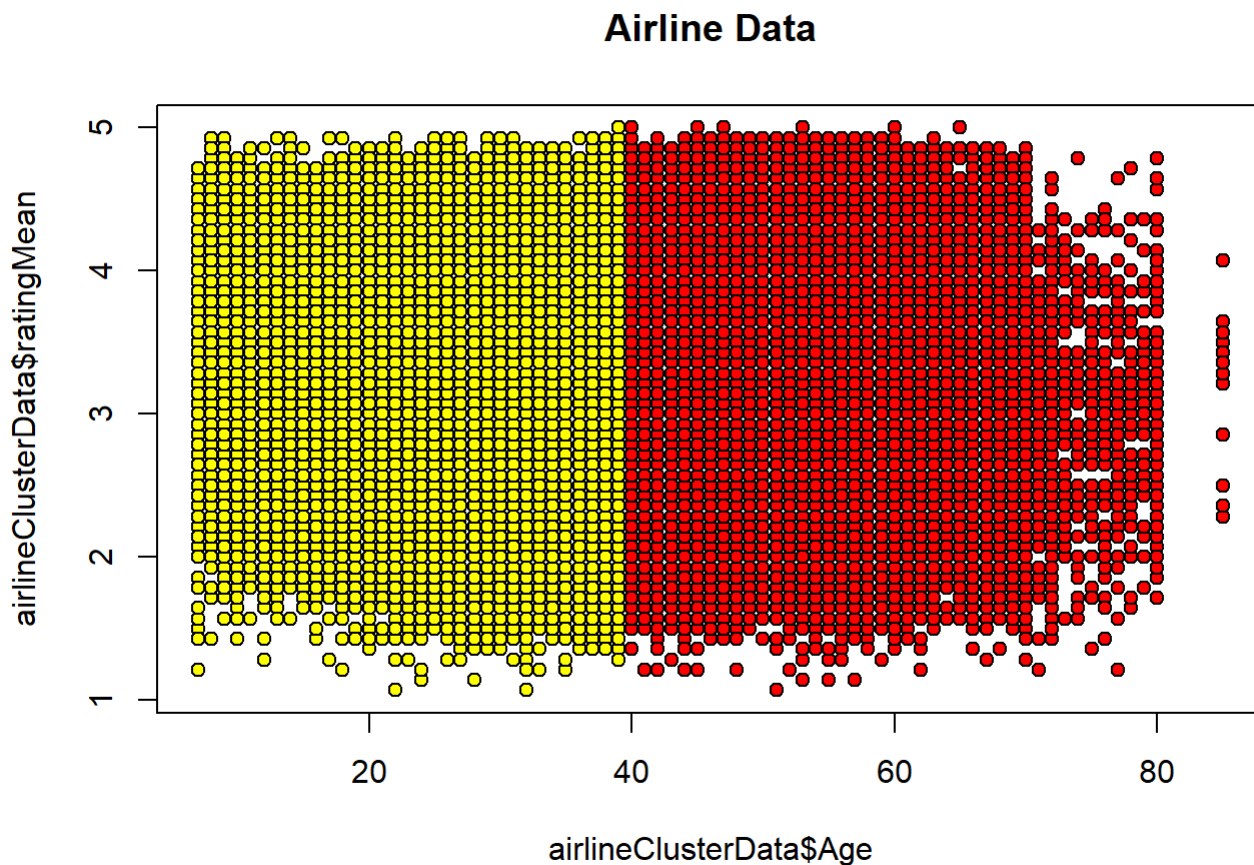


```
##
##      dissatisfied satisfied
##  1         24521      41296
##  2         34272      29791
```

2 is satisfied and 1 is unsatisfied

## Plotting the data based on Rating mean and Age

```
plot(airlineClusterData$Age, airlineClusterData$ratingMean, pch=21, bg=c("red", "yellow", "blue")
)[unclass(airlineClusterData$cluster)], main = "Airline Data")
```



## Hierarchical Clustering

```
library(flexclust)
```

```
## Loading required package: grid
```

```
## Loading required package: lattice
```

```
## Loading required package: modeltools
```

```
## Loading required package: stats4
```

```
airlineClusterData$satisfaction <- as.numeric(as.factor(airlineClusterData$satisfaction))  
str(airlineClusterData)
```

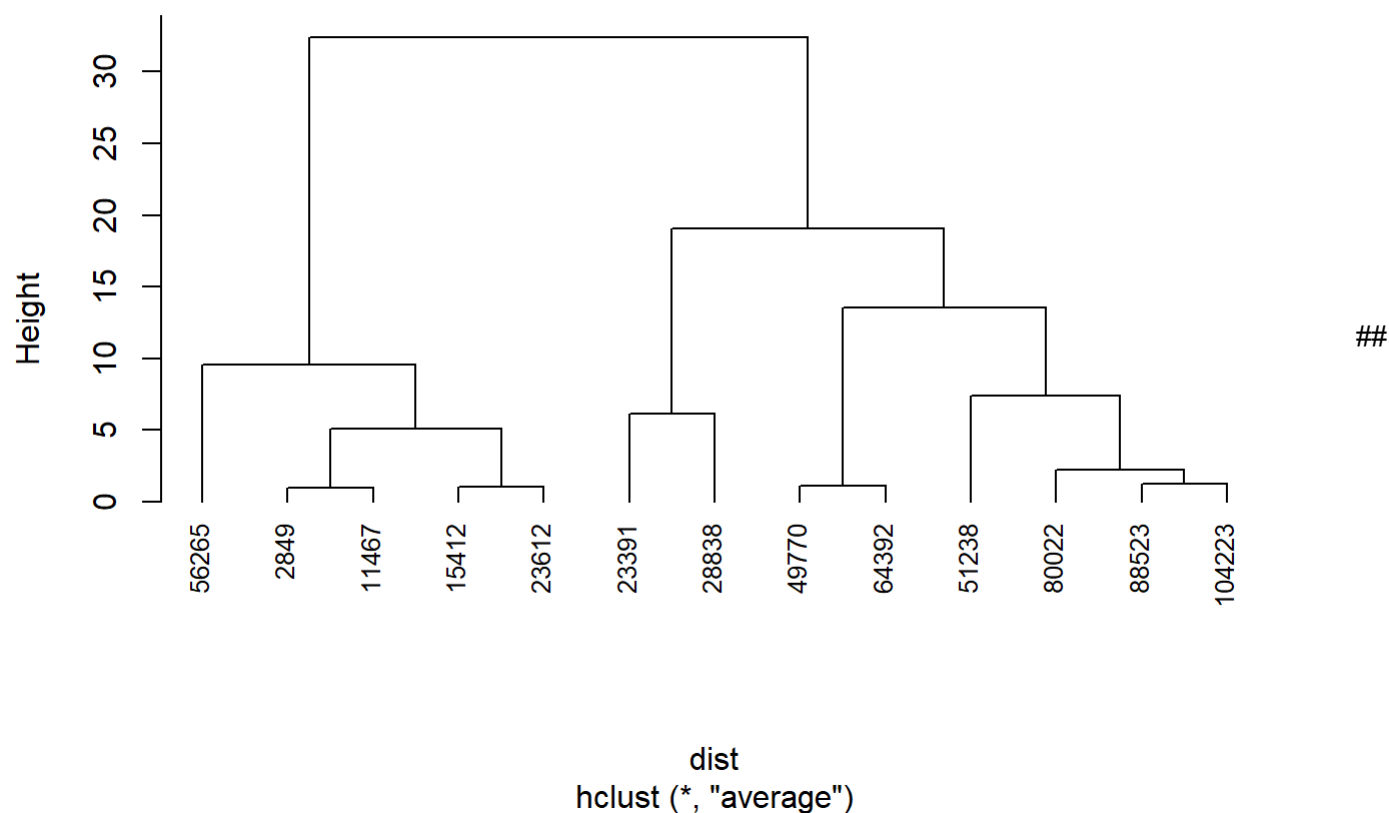
```
## 'data.frame': 129880 obs. of 3 variables:  
## $ Age : int 65 47 15 60 70 30 66 10 56 22 ...  
## $ ratingMean : num 2.07 2.07 2.07 1.71 2.21 ...  
## $ satisfaction: num 2 2 2 2 2 2 2 2 2 2 ...
```

```
airline.scaled <- scale(airlineClusterData)  
head(airline.scaled)
```

```
##           Age ratingMean satisfaction  
## [1,] 1.6913443 -1.841361 0.9094232  
## [2,] 0.5008177 -1.841361 0.9094232  
## [3,] -1.6156740 -1.841361 0.9094232  
## [4,] 1.3606425 -2.372261 0.9094232  
## [5,] 2.0220461 -1.629001 0.9094232  
## [6,] -0.6235685 -1.310461 0.9094232
```

```
i <- sample(1:nrow(airlineClusterData), 0.9999*nrow(airlineClusterData), replace=FALSE)  
testAirline <- airlineClusterData[-i,]  
  
dist <- dist(testAirline)  
hcl <- hclust(dist, method="average")  
plot(hcl, hang=-1, cex=.8, main="Hierarchical Clustering")
```

## Hierarchiacal Clustering



Cutting the Dendrogram and finding best index.

```
library(NbClust)
testAirline$satisfaction <- "Satisfied"
testAirline$satisfaction[5] <- "Disatisfied"
testAirline$satisfaction[7:8] <- "Disatisfied"
testAirline$satisfaction[10] <- "Disatisfied"

for (c in 1:13) {
  cluster_cut <- cutree(hcl, c)
  table_cut <- table(cluster_cut, testAirline$satisfaction)
  print(table_cut)
  ri <- randIndex(table_cut)
  print(paste("cut= ", c, "Rand Index = ", ri))
}
```

```

##
## cluster_cut Disatisfied Satisfied
##          1          4          9
## [1] "cut= 1 Rand Index = 0"
##
## cluster_cut Disatisfied Satisfied
##          1          1          4
##          2          3          5
## [1] "cut= 2 Rand Index = -0.0748031496062991"
##
## cluster_cut Disatisfied Satisfied
##          1          1          4
##          2          0          2
##          3          3          3
## [1] "cut= 3 Rand Index = -0.05"
##
## cluster_cut Disatisfied Satisfied
##          1          1          4
##          2          0          2
##          3          2          0
##          4          1          3
## [1] "cut= 4 Rand Index = 0.0643939393939394"
##
## cluster_cut Disatisfied Satisfied
##          1          1          3
##          2          0          2
##          3          2          0
##          4          1          3
##          5          0          1
## [1] "cut= 5 Rand Index = 0.0225563909774436"
##
## cluster_cut Disatisfied Satisfied
##          1          1          3
##          2          0          2
##          3          2          0
##          4          1          0
##          5          0          1
##          6          0          3
## [1] "cut= 6 Rand Index = 0.100934579439252"
##
## cluster_cut Disatisfied Satisfied
##          1          1          3
##          2          0          1
##          3          0          1
##          4          2          0
##          5          1          0
##          6          0          1
##          7          0          3
## [1] "cut= 7 Rand Index = 0.0783582089552239"
##
## cluster_cut Disatisfied Satisfied
##          1          0          2

```

```

##          2          1          1
##          3          0          1
##          4          0          1
##          5          2          0
##          6          1          0
##          7          0          1
##          8          0          3
## [1] "cut= 8 Rand Index = 0.0851851851851852"
##
## cluster_cut Disatisfied Satisfied
##          1          0          2
##          2          1          1
##          3          0          1
##          4          0          1
##          5          2          0
##          6          1          0
##          7          0          1
##          8          0          1
##          9          0          2
## [1] "cut= 9 Rand Index = 0.040590405904059"
##
## cluster_cut Disatisfied Satisfied
##          1          0          2
##          2          1          1
##          3          0          1
##          4          0          1
##          5          2          0
##          6          1          0
##          7          0          1
##          8          0          1
##          9          0          1
##         10          0          1
## [1] "cut= 10 Rand Index = 0.0184162062615101"
##
## cluster_cut Disatisfied Satisfied
##          1          0          2
##          2          1          1
##          3          0          1
##          4          0          1
##          5          1          0
##          6          1          0
##          7          0          1
##          8          1          0
##          9          0          1
##         10          0          1
##         11          0          1
## [1] "cut= 11 Rand Index = -0.00367647058823529"
##
## cluster_cut Disatisfied Satisfied
##          1          0          2
##          2          0          1
##          3          0          1

```

```
##          4          1          0
##          5          0          1
##          6          1          0
##          7          1          0
##          8          0          1
##          9          1          0
##         10          0          1
##         11          0          1
##         12          0          1
## [1] "cut= 12 Rand Index = 0.0220183486238532"
##
## cluster_cut Disatisfied Satisfied
##          1          0          1
##          2          0          1
##          3          0          1
##          4          0          1
##          5          1          0
##          6          0          1
##          7          1          0
##          8          1          0
##          9          0          1
##         10          1          0
##         11          0          1
##         12          0          1
##         13          0          1
## [1] "cut= 13 Rand Index = 0"
```

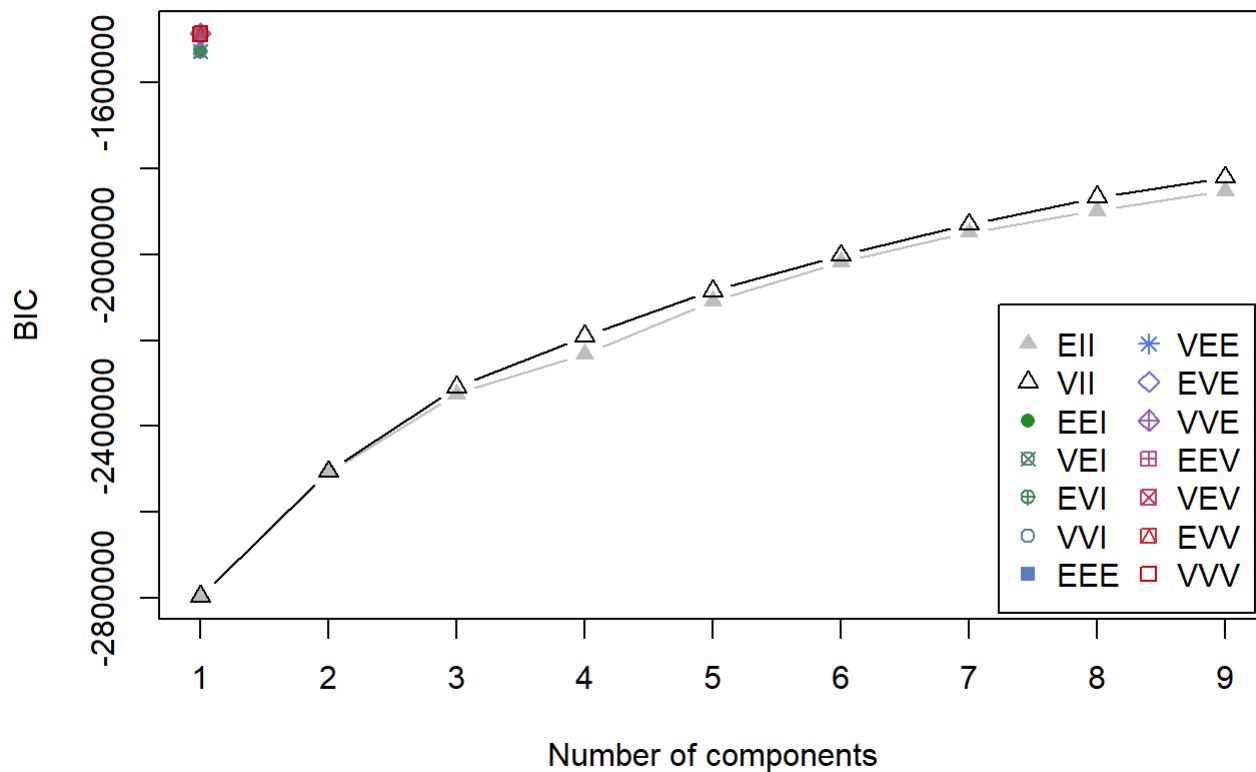
## Generating the different types of plots for model based clustering

```
library(mclust)
```

```
## Package 'mclust' version 5.4.10
## Type 'citation("mclust")' for citing this R package in publications.
```

```
fit <- mclustBIC(airlineClusterData)

plot(fit)
```



```
summary(fit)
```

```
## Best BIC values:
##           EEE,1   EEV,1   EVE,1
## BIC      -1486818 -1486818 -1486818
## BIC diff         0         0         0
```

## Comparing the Results

When we did clustering, we printed out a table that shows the True/False satisfied/dissatisfied of the data set. We then plotted the data to showcase that at around the age of 40, most customers will be satisfied with the airline while those under 40 will be unsatisfied. When we did hierarchical clustering, we had to subset the data to fit the dendrogram. After that we had to cut the dendrogram to find out the best Index which was 0.1. This indicates that our data set is not very good for clustering. Using based model clustering also revealed that our data set isn't viable for clustering