Iris Data Set

Skyler Preston

MIS6240

Data Warehousing

Hands-On Lab 3

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Professor

Dr. Amitava Karmaker

**Dataset Name:** Iris

**Format:** Clustering

**Objective:** Cluster the flowers according to their species

**Step 1:**

Graphical user interface, Word

Description automatically generated

**Functions:**

Data(“iris”)

Head(iris)

**Step 2:** Break up the 3rd and 4th columns into a object of x with a unsupervised learning model. Its important to remove the labels so the input of petal length and petal width columns will be utilized.

A picture containing text

Description automatically generated

**Functions:**

X=iris[,3:4]

Head(x)

**Step 3:**

The use of the K Means algorithm. The object x will have a 3 cluster as 3 species in the dataset. Then by using the built in Clustering package in R will perform the solution of a Clusplot function of a 2D graph.

Graphical user interface

Description automatically generated

**Function:**

Model-kmeans(x,3)

Library(cluster)

Clusplot(x,model$cluster)

**Step 4:**

Associate the different colors to the clusters and shading them to T which means true

Graphical user interface

Description automatically generated

**Function:**

Clusplot(x,model$cluster,color=T,shade=T)