

# ISM6136.020F21.88869 Data Mining

## Assignment 4: k-Means Clustering

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Kiran Garimella



# Screen 1: Full Model(Cluster = 2)



Search experiment items



## Saved Datasets



## My Datasets

Clustering\_Student\_S...



## Samples

Adult Census Income...

Airport Codes Dataset

Automobile price dat...

Bike Rental UCI dataset

Bill Gates RGB Image

Blood donation data

Book Reviews from A...

Breast cancer data

Breast Cancer Features

Breast Cancer Info

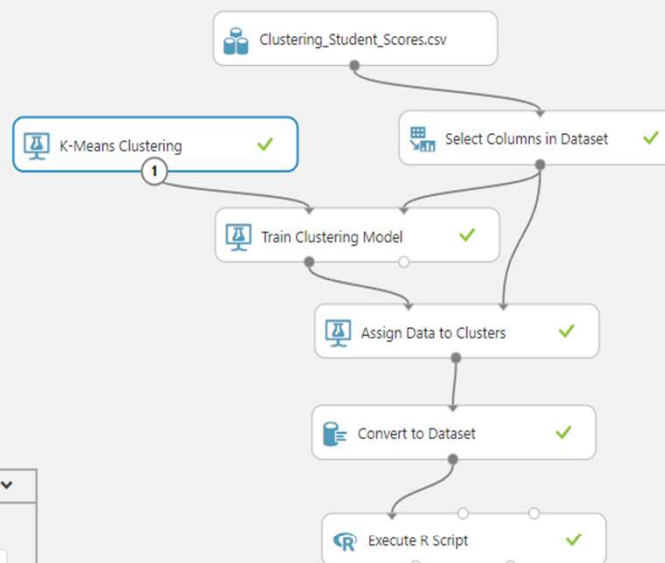
CRM Appetency Labe...

CRM Churn Labels Sh...

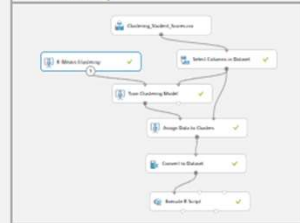
CRM Dataset Shared

## ISM 6136 S21 nnn Assignment 4 Sankar Chandrah...

Initial running selected items



## Mini Map



## Properties Project

## K-Means Clustering

Create trainer mode

Single Parameter

Number of Centroids

2

Initialization

K-Means++

Random number seed

7878

Metric

Euclidean

Iterations

100

Assign Label Mode

Ignore label column

START TIME 11/20/2021 5:20:48 PM

## Quick Help

Initialize K-Means clustering model  
(more help...)

NEW



RUN HISTORY



SAVE



SAVE AS



DISCARD CHANGES



RUN



SET UP WEB SERVICE



PUBLISH TO GALLERY

Finished running ✓

Properties Project

3

- Standard Output

RWorker pushed "port1" to R workspace.  
Beginning R Execute Script

[1] 56000

Loading objects:

port1

```
[1] "Loading variable port1..."
```

[1] "Saving variable Scores ..."


```
[1] "Saving the following item(s): .maml.oport1"
```

- Standard Error

R reported no errors.

## Graphics



 Quick Help

# ISM 6136 S21 nnn Assignment 4 Sankar Chandrahas (...)

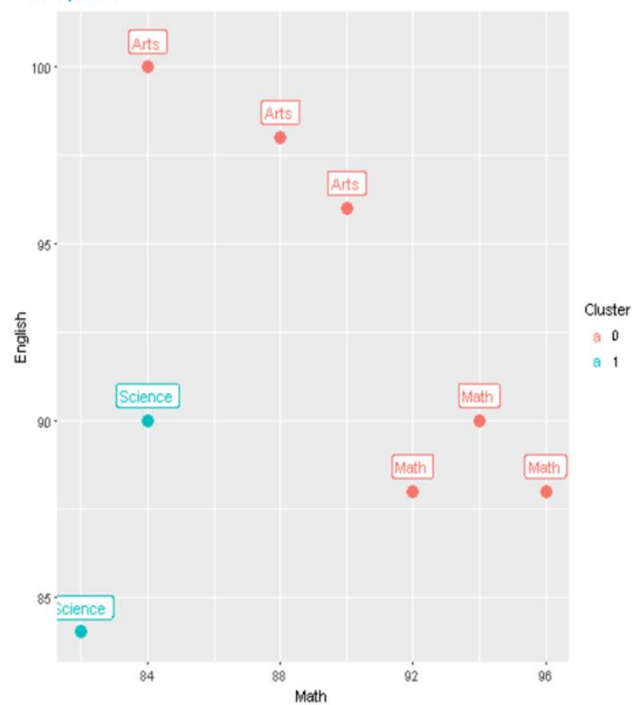
Finished running ✓

Properties

Project

ISM 6136 S21 nnn Assignment 4 Sankar Chandrah... > Execute R Script > R Device

## Graphics



Quick Help

+ NEW

RUN HISTORY

SAVE

SAVE AS

DISCARD CHANGES

RUN

SET UP WEB SERVICE

PUBLISH TO GALLERY

## Cluster 3 :



## ISM 6136 S21 nnn Assignment 4 Sankar Chandras...

Finished running selected items ✓

Properties Project

## K-Means Clustering

Create trainer mode

Single Parameter

Number of Centroids

3

Initialization

K-Means++

Random number seed

7878

Metric

Euclidean

Iterations

100

Assign Label Mode

Ignore label column

START TIME 11/20/2021 5:11:55 PM

## Quick Help

Initialize K-Means clustering model  
(more help...)

Search experiment items

## Saved Datasets

## My Datasets

Clustering\_Student\_S...

## Samples

Adult Census Income...

Airport Codes Dataset

Automobile price dat...

Bike Rental UCI dataset

Bill Gates RGB Image

Blood donation data

Book Reviews from A...

Breast cancer data

Breast Cancer Features

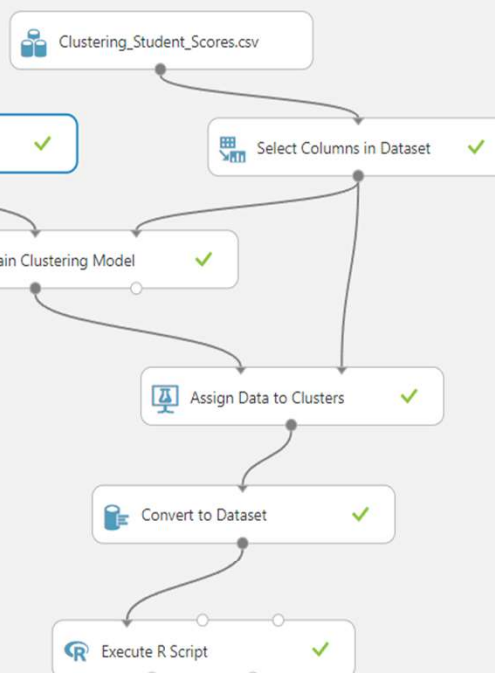
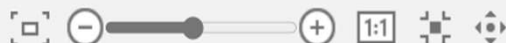
Breast Cancer Info

CRM Appetency Labe...

CRM Churn Labels Sh...

CRM Dataset Shared

## Mini Map



NEW



RUN HISTORY



SAVE



SAVE AS



DISCARD CHANGES



RUN



SET UP WEB SERVICE



PUBLISH TO GALLERY

## ISM 6136 S21 nnn Assignment 4 Sankar Chandrah...

Finished running selected items ✓

Properties

Project

Search ex... ISM 6136 S21 nnn Assignment 4 Sankar Chandrah... ▶ Execute R Script ▶ R Device

## Standard Output

RWorker pushed "port1" to R workspace.  
Beginning R Execute Script

[1] 56000

Loading objects:

port1

[1] "Loading variable port1..."

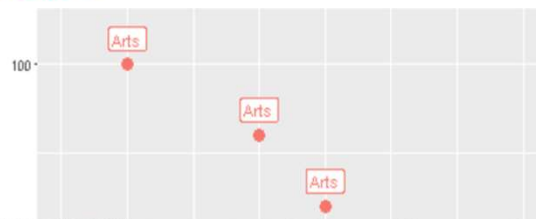
[1] "Saving variable Scores ..."

[1] "Saving the following item(s): .maml.oport1"

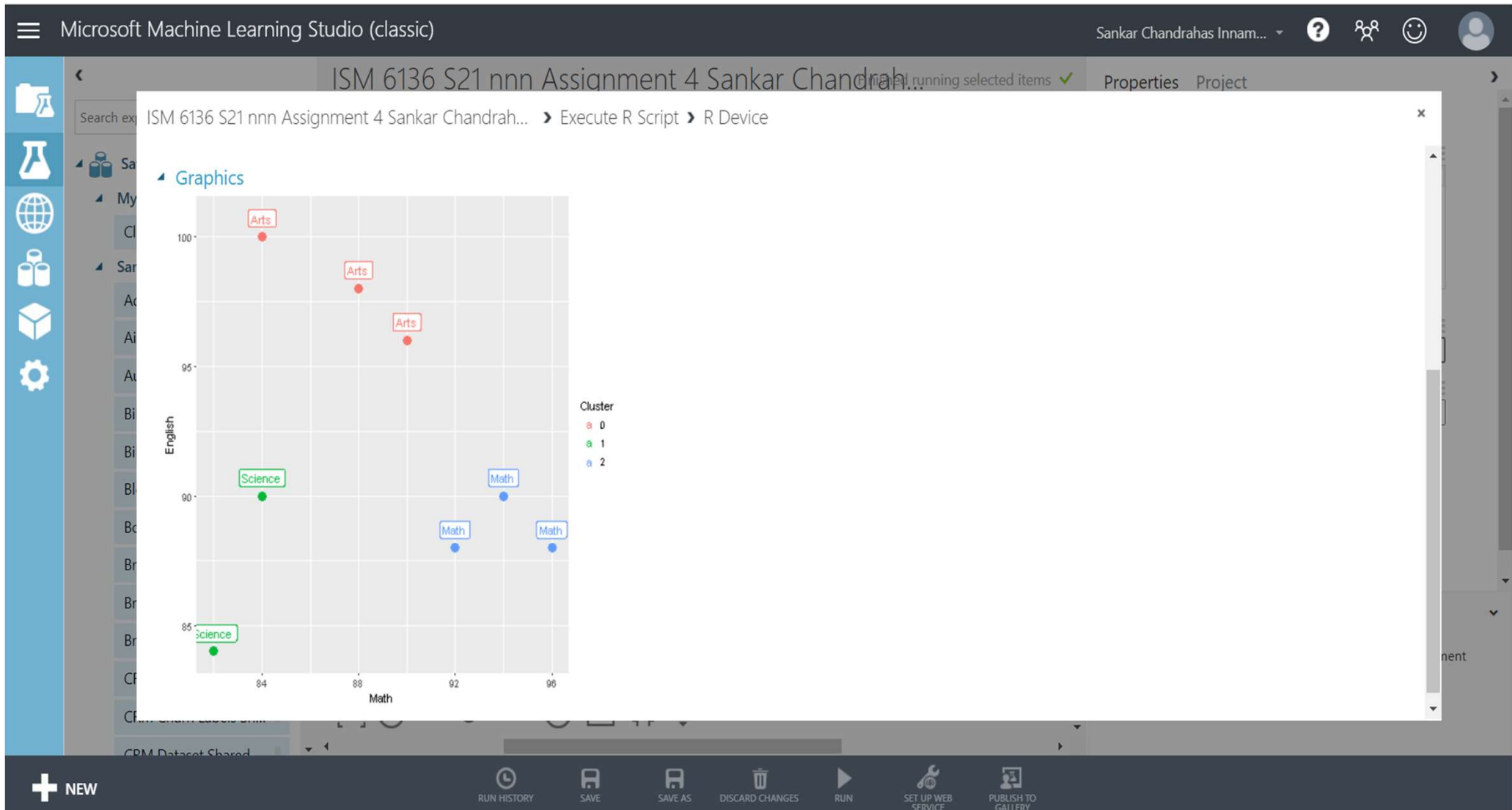
## Standard Error

R reported no errors.

## Graphics







## Cluster 4:

## ISM 6136 S21 nnn Assignment 4 Sankar Chandras...

K-Means running selected items ✓

Draft saved at 5:16:15 PM

Search experiment items

## Saved Datasets

## My Datasets

Clustering\_Student\_S...

## Samples

Adult Census Income...

Airport Codes Dataset

Automobile price dat...

Bike Rental UCI dataset

Bill Gates RGB Image

Blood donation data

Book Reviews from A...

Breast cancer data

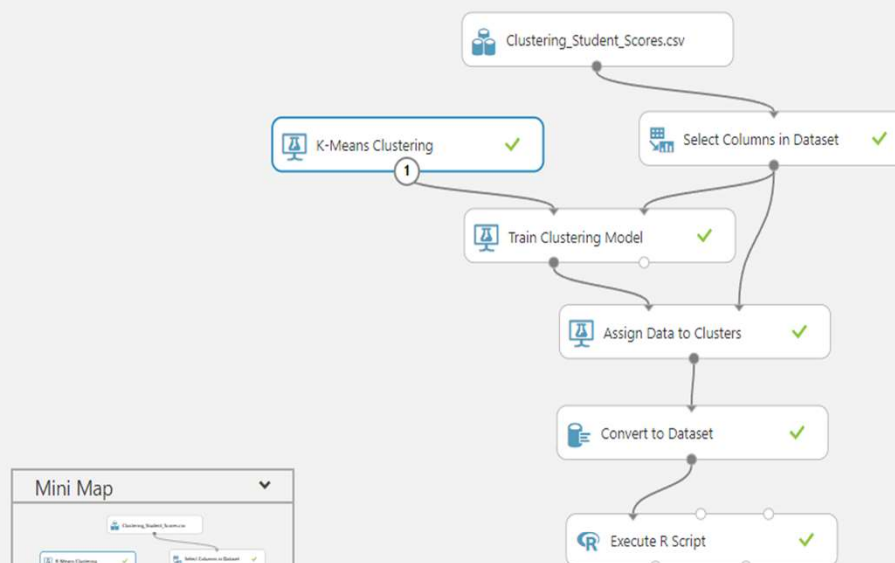
Breast Cancer Features

Breast Cancer Info

CRM Appetency Labe...

CRM Churn Labels Sh...

CRM Dataset Shared



Mini Map

## Properties Project

## K-Means Clustering

Create trainer mode

Single Parameter

Number of Centroids

4

Initialization

K-Means++

Random number seed

7878

Metric

Euclidean

Iterations

100

Assign Label Mode

Ignore label column

START TIME 11/20/2021 5:15:37 PM

## Quick Help

Initialize K-Means clustering model  
(more help...)

NEW



RUN HISTORY



SAVE



SAVE AS



DISCARD CHANGES



RUN



SET UP WEB SERVICE



PUBLISH TO GALLERY

# ISM 6136 S21 nnn Assignment 4 Sankar Chandrah...

Model running selected items ✓

Properties

Project

Search ex...

ISM 6136 S21 nnn Assignment 4 Sankar Chandrah... ▶ Execute R Script ▶ R Device

## Standard Output

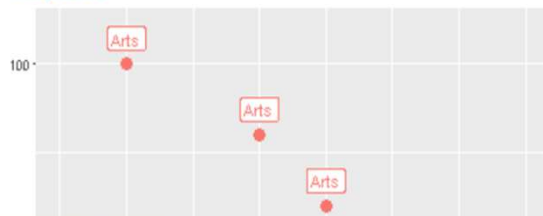
RWorker pushed "port1" to R workspace.  
Beginning R Execute Script

```
[1] 56000
Loading objects:
  port1
[1] "Loading variable port1..."
[1] "Saving variable Scores ..."
[1] "Saving the following item(s): .maml.oport1"
```

## Standard Error

R reported no errors.

## Graphics



NEW



RUN HISTORY



SAVE



SAVE AS



DISCARD CHANGES



RUN



SET UP WEB SERVICE



PUBLISH TO GALLERY

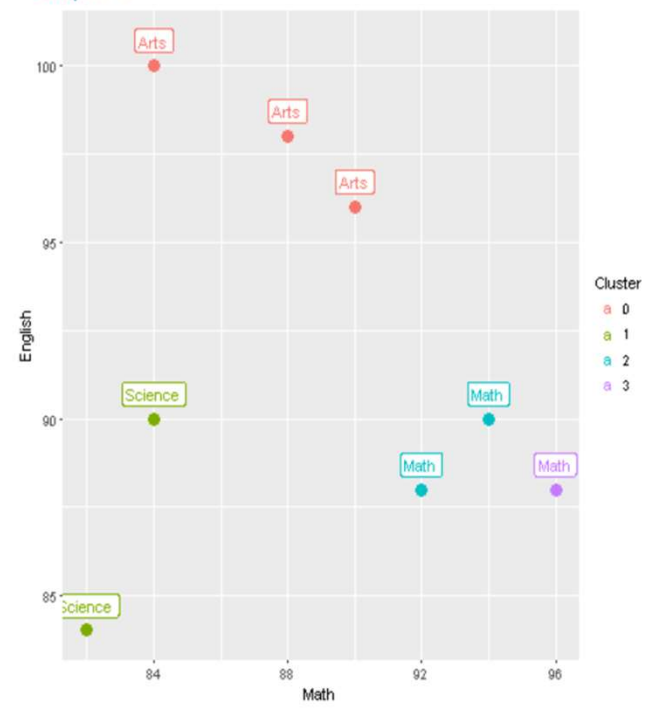
# ISM 6136 S21 nnn Assignment 4 Sankar Chandrah...

Completed running selected items

Properties Project

Search explorer ISM 6136 S21 nnn Assignment 4 Sankar Chandrah... Execute R Script R Device

## Graphics



NEW



RUN HISTORY



SAVE



SAVE AS



DISCARD CHANGES



RUN



SET UP WEB SERVICE



PUBLISH TO GALLERY