

[12:30 AM, 1/11/2023] 😊: Scheme:weka.clusterers.SimpleKMeans -N 2 -A  
"weka.core.EuclideanDistance -R first-last" -I 500 -S 10

Relation: HousePrice\_data

Instances: 4600

Attributes: 18

date

price

bedrooms

bathrooms

sqft\_living

sqft\_lot

floors

waterfront

view

condition

sqft\_above

sqft\_basement

yr\_built

yr\_renovated

street

city

statezip

country

Test mode:evaluate on training data

=== Model and evaluation on training set ===

kMeans

=====

Number of iterations: 7

Within cluster sum of squared errors: 17589.525287978548

Missing values globally replaced with mean/mode

Cluster centroids:

Attribute	Cluster#		
	Full Data	0	1
	(4600)	(2679)	(1921)
=====			
=====			
date	23-06-2014 00:00	08-07-2014 00:00	07-05-2014 00:00
price	551962.9885	568952.1413	528270.1512
bedrooms	3.4009	3.4472	3.3363
bathrooms	2.1608	2.312	1.95
sqft_living	2139.347	2250.5218	1984.304
sqft_lot	14852.5161	15714.2027	13650.8199
floors	1.5121	1.6336	1.3425
waterfront	0.0072	0.0071	0.0073
view	0.2407	0.2281	0.2582
condition	3.4517	3.5405	3.328
sqft_above	1827.2654	1957.2221	1646.0297

sqft_basement	312.0815	293.2997	338.2743
yr_built	1970.7863	1979.193	1959.0625
yr_renovated	808.6083	19.1926	1909.5164
street	2520 Mulberry Walk NE	2520 Mulberry Walk NE	35229 SE Terrace St
city	Seattle	Seattle	Seattle
statezip	WA 98103	WA 98103	WA 98034
country	USA	USA	USA

Time taken to build model (full training data) : 0.11 seconds

=== Model and evaluation on training set ===

Clustered Instances

0 2679 ( 58%)

1 1921 ( 42%)

[1:18 AM, 1/11/2023] 😊: === Run information ===

Scheme:weka.clusterers.EM -I 100 -N -1 -M 1.0E-6 -S 100

Relation: crime

Instances: 47

Attributes: 8

Year  
Population  
Murder  
Rape  
Robbery  
Assault  
Burglary  
CarTheft

Test mode:evaluate on training data

=== Model and evaluation on training set ===

EM  
  
==

Number of clusters selected by cross validation: 5

	Cluster				
Attribute	0	1	2	3	4
	(0.26)	(0.13)	(0.36)	(0.11)	(0.15)
=====					
Yearmean	2005.5	1990.5	1980.3529	1997	1968
std. dev.	3.4521	1.7078	5.625	1.4142	2

#### Population

mean	19289794.1667	18035409.6788	17881041.974	18165920.2042	18240390.4563
std. dev.	160346.5501	101493.8891	248964.7389	24977.5465	110418.0323

#### Murder

mean	874.9167	2413.834	1973.7646	1164.6	1212.8533
std. dev.	62.0396	140.5813	128.9	251.188	324.551

#### Rape

mean	3250.4167	5222.3324	5187.2304	3989	2707.5683
std. dev.	441.2481	161.8788	377.3213	258.849	290.3994

#### Robbery

mean	33396.75	106069.1992	93395.4876	56670.798	57417.4533
std. dev.	3707.4057	5447.0007	10310.3002	9992.3401	24323.9592

#### Assault

mean	48221.3333	89751.8278	61470.1658	64743.7988	34452.236
std. dev.	5417.1056	2289.2575	10316.9741	5207.2629	5032.6828

#### Burglary

mean	71016.0833	202959.7771	269802.6448	118546.7964	234185.4531
std. dev.	7280.2331	12052.4815	51879.9057	18666.3922	32520.6333

## CarTheft

mean	34908.9167	169109.0575	121974.5885	79724.9971	97171.7993
std. dev.	11617.2257	13034.3403	11011.47	15625.6976	26425.6258

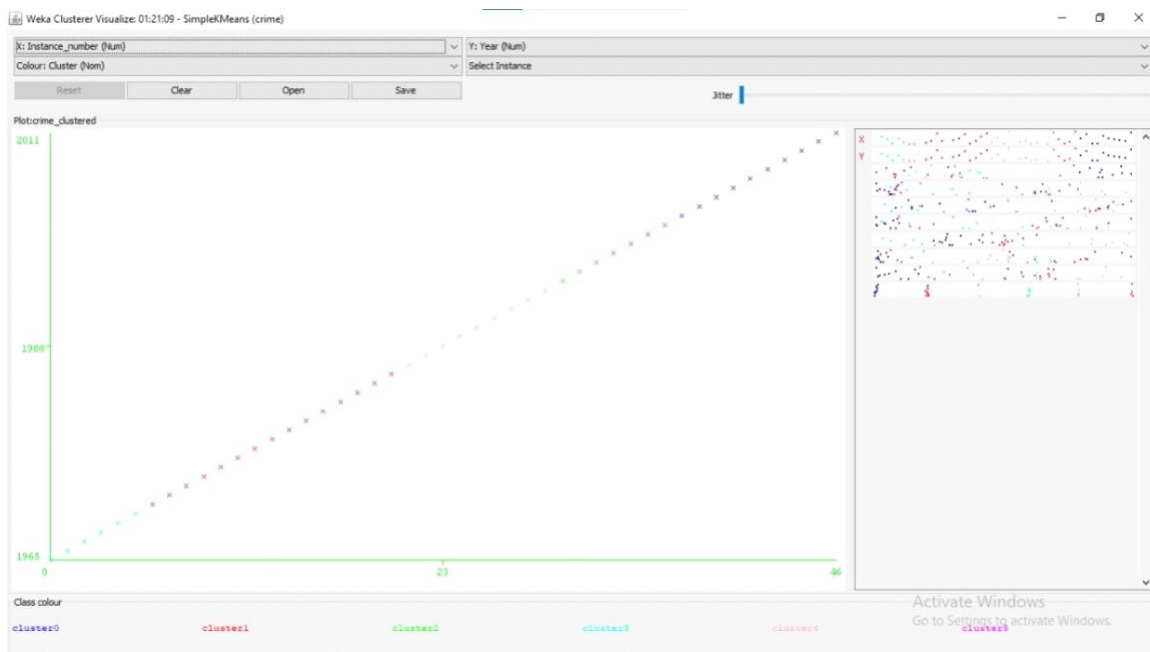
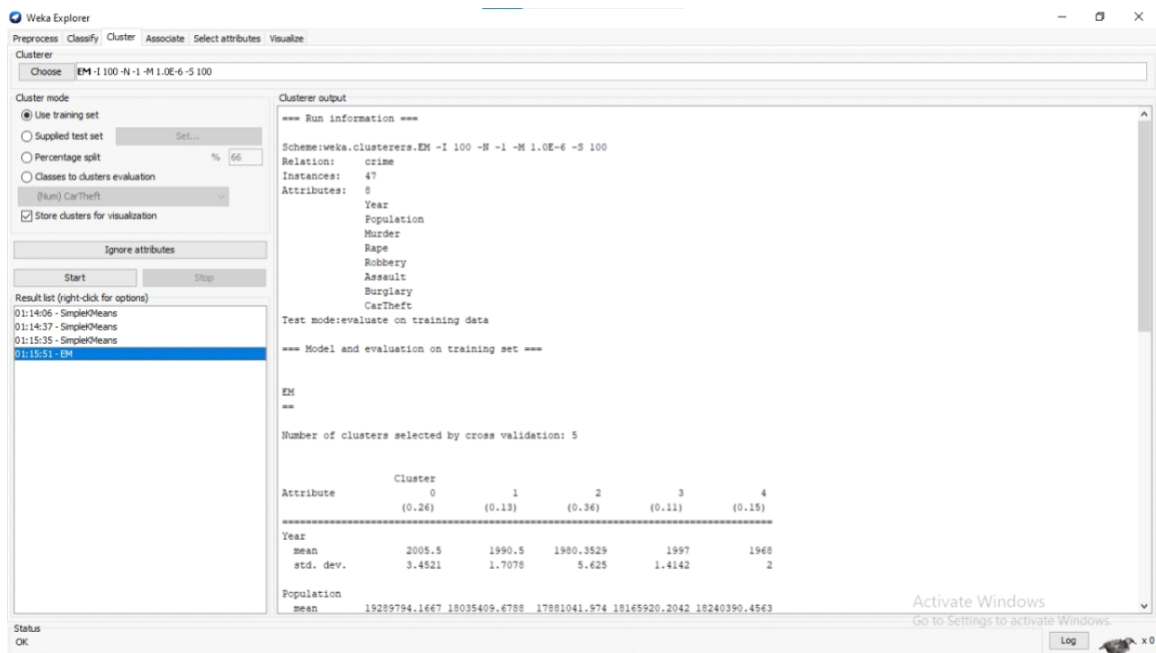
Time taken to build model (full training data) : 0.2 seconds

=== Model and evaluation on training set ===

## Clustered Instances

0	12 ( 26%)
1	6 ( 13%)
2	17 ( 36%)
3	5 ( 11%)
4	7 ( 15%)

Log likelihood: -73.74065



Scheme:weka.clusterers.SimpleKMeans -N 2 -A "weka.core.EuclideanDistance -R first-last" -I 500 -S 7

Relation: crime

Instances: 47

Attributes: 8

Year

Population

Murder

Rape

Robbery

Assault

Burglary

CarTheft

Test mode:evaluate on training data

=== Model and evaluation on training set ===

kMeans

=====

Number of iterations: 4

Within cluster sum of squared errors: 13.381520067955652

Missing values globally replaced with mean/mode

Cluster centroids:

Attribute	Cluster#		
	Full Data	0	1
	(47)	(21)	(26)
=====			
Year	1988	1994.8095	1982.5
Population	18344255.6596	18822482.4286	17957995.5769
Murder	1549.9787	952.1429	2032.8462
Rape	4200.4255	3214.9048	4996.4231
Robbery	70429.2979	39748.381	95210.0385



Assault	58022.234	47034.619	66896.8462
Burglary	189119.8298	114118.4286	249697.8846
CarTheft	97573.5532	54371.8095	132467.2692

Time taken to build model (full training data) : 0 seconds

=== Model and evaluation on training set ===

Clustered Instances

0	21 ( 45%)
1	26 ( 55%)