

Date:15/09/22

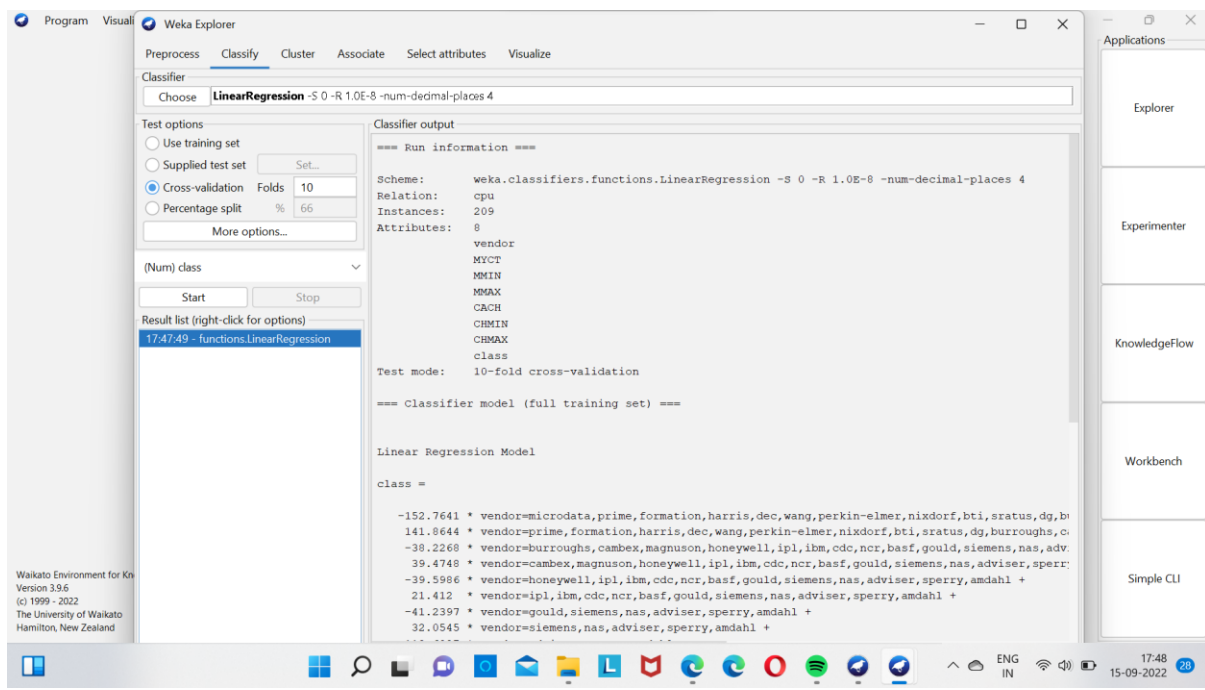
Course name:-Data warehousing and Data mining for medical applications

Course code:-CSA1654

Name of the student:-Ch.Indhu Priya

REG NO:-192111191

EXPERIMENT:20



EXPERIMENT:21

Weka Explorer

Preprocess Classify Cluster Associate Select attributes Visualize

Cluster mode

Choose **MakeDensityBasedClusterer** -M 1.0E-6 -W weka.clusterers.SimpleKMeans --init 0 -max-candidates 100 -periodic-pruning 10000 -min-density 2.0 -t1 -1.25 -t2 -1.0 -N 2 -A

Cluster mode

☒ Use training set

☐ Supplied test set

☐ Percentage split % 66

☐ Classes to clusters evaluation (Nom) Class

☒ Store clusters for visualization

Ignore attributes

Start Stop

Result list (right-click for options)

17:53:34 - MakeDensityBasedClusterer

Cluster output

```

Attribute: tumor-size
Discrete Estimator. Counts = 1 1 2 4 9 8 28 9 6 2 2 1 (Total = 73)
Attribute: inv-nodes
Discrete Estimator. Counts = 25 19 11 4 3 4 1 1 2 1 1 1 1 (Total = 74)
Attribute: node-caps
Discrete Estimator. Counts = 37 26 (Total = 63)
Attribute: deg-malig
Discrete Estimator. Counts = 5 10 49 (Total = 64)
Attribute: breast
Discrete Estimator. Counts = 36 27 (Total = 63)
Attribute: breast-quad
Discrete Estimator. Counts = 19 26 11 6 4 (Total = 66)
Attribute: irradiat
Discrete Estimator. Counts = 26 37 (Total = 63)
Attribute: Class
Discrete Estimator. Counts = 9 54 (Total = 63)

Time taken to build model (full training data) : 0.01 seconds

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

Clustered Instances

0 226 ( 79%)
1 60 ( 21%)

Log likelihood: -9.79929

```

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## EXPERIMENT:22

Weka Explorer

Preprocess Classify Cluster Associate Select attributes Visualize

Open file... Open URL... Open DB... Generate... Undo Edit... Save...

Filter Choose **None** Apply Stop

Current relation

Relation: breast-cancer

Instances: 286

Attributes: 10 Sum of weights: 286

Attributes

All None Invert Pattern

No. Name

1 ☐ age

2 ☐ menopause

3 ☐ tumor-size

4 ☒ inv-nodes

5 ☐ node-caps

6 ☐ deg-malig

7 ☒ breast

8 ☐ breast-quad

9 ☐ irradiat

10 ☐ Class

Remove

Selected attribute

Name: breast

Missing: 0 (0%)

Distinct: 2

Type: Nominal

Unique: 0 (0%)

No.	Label	Count	Weight
1	left	152	152
2	right	134	134

Class: Class (Nom)

Visualize All

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