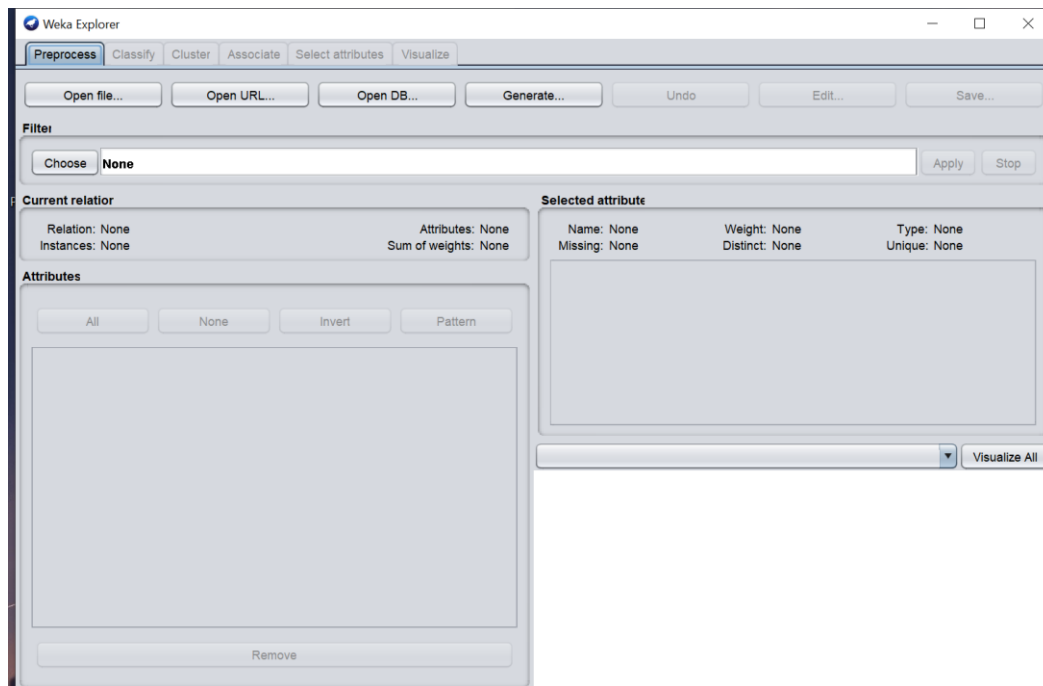
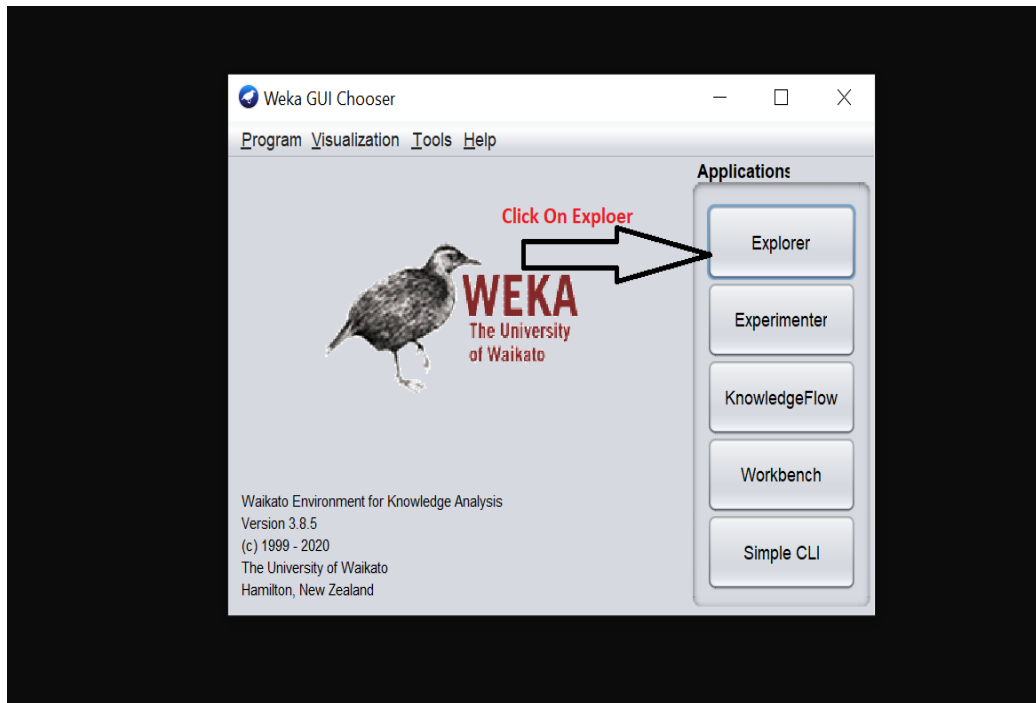


# **IMPLEMENTING USING WEKA TOOL**

**KARAN SALUNKHE**

**PRN-21070149016**



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: cpu Instances: 209 Columns: 7 Attributes: 7 Sum of weights: 209

Attributes: All None Invert Pattern

No.	Name	Type
1	MYCT	Independent
2	MMIN	Independent
3	MMAX	Independent
4	CACH	Independent
5	CHMIN	Independent
6	CHMAX	Independent
7	class	Dependent

Remove

Selected attribute: Name: MYCT Missing: 0 (0%) Distinct: 60 Type: Numeric Unique: 19 (9%)

Statistic	Value
Minimum	17
Maximum	1500
Mean	203.823
StdDev	260.263

Class: class (Num) Visualize All

Preprocess Classify Cluster Associate Select attributes Visualize

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

Filter: Choose **Normalize -S 1.0 -T 0.0** MinMax Normalization Apply Stop

Current relation: Relation: cpu-weka.filters.unsupervised.attribute.Normalize Instances: 209 Attributes: 7 Sum of weights: 209

Attributes: All None Invert Pattern

No.	Name	Type
1	MYCT	Independent
2	MMIN	Independent
3	MMAX	Independent
4	CACH	Independent
5	CHMIN	Independent
6	CHMAX	Independent
7	class	Dependent

Remove

Selected attribute: Name: MYCT Missing: 0 (0%) Distinct: 60 Type: Numeric Unique: 19 (9%)

Statistic	Value
Minimum	0
Maximum	1
Mean	0.126
StdDev	0.175

All Independent variables Minimum becomes 0 and Maximum becomes 1

Class: class (Num) Visualize All

Preprocess Classify Cluster Associate Select attributes Visualize

Classifier

Choose LinearRegression -S 0 -R 1.0E-8 -num-decimal-places 4 **Used Linear Regression Model**

Test options

☐ Use training set

☐ Supplied test set Set...

☐ Cross-validation Folds 10

☒ Percentage split % 70 **Splitting of Data into 70% for Training and 30% for Testing**

More options...

(Num) class

Start Stop

Result list (right-click for options)

19:34:55 - functions.LinearRegression

Classifier output

Linear Regression Model

class =

MYCT +  
MMIN +  
MMAX +  
CACH +  
256.9383 \* CHMAX +  
-53.9126

Time taken to build model: 0.25 seconds

=== Evaluation on test split ===

Time taken to test model on test split: 0 seconds

=== Summary ===

Correlation coefficient	0.9169
Mean absolute error	34.2971
Root mean squared error	44.2411
Relative absolute error	41.2571 %
Root relative squared error	43.8128 %
Total Number of Instances	63

Preprocess Classify Cluster Associate Select attributes Visualize

Classifier

Choose LinearRegression -S 0 -R 1.0E-8 -num-decimal-places 4

Test options

☐ Use training set

☐ Supplied test set Set...

☐ Cross-validation Folds 10

☒ Percentage split % 70

More options...

(Num) class

Start Stop

Result list (right-click for options)

19:34:55 - functions.LinearRegression

Classifier output

Linear Regression Model

class =

72.8347 \* MYCT +  
484.8001 \* MMIN +  
355.5867 \* MMAX +  
161.2349 \* CACH +  
256.9383 \* CHMAX +  
-53.9126

Time taken to build model: 0.25 seconds

=== Evaluation on test split ===

Time taken to test model on test split: 0 seconds

=== Summary ===

Correlation coefficient	0.9169
Mean absolute error	34.2971
Root mean squared error	44.2411
Relative absolute error	41.2571 %
Root relative squared error	43.8128 %
Total Number of Instances	63

