

EX. No : 01 STUDY OF WEKA, RAPID MINER TOOLS AND UCI REPOSITORY DATASETS
DATE :

AIM:

To explore the various features of Weka, Rapid miner Tools and UCI Repository datasets.

PROCEDURE:

FUNDAMENTAL TERMS:

Feature/Attribute: A single column of data is called a feature. It is a component of an observation and is also called an attribute of a data instance. Some features may be inputs to a model (the predictors) and others may be outputs or the features to be predicted.

Attribute values: Attribute values are numbers or symbols assigned to an attribute.

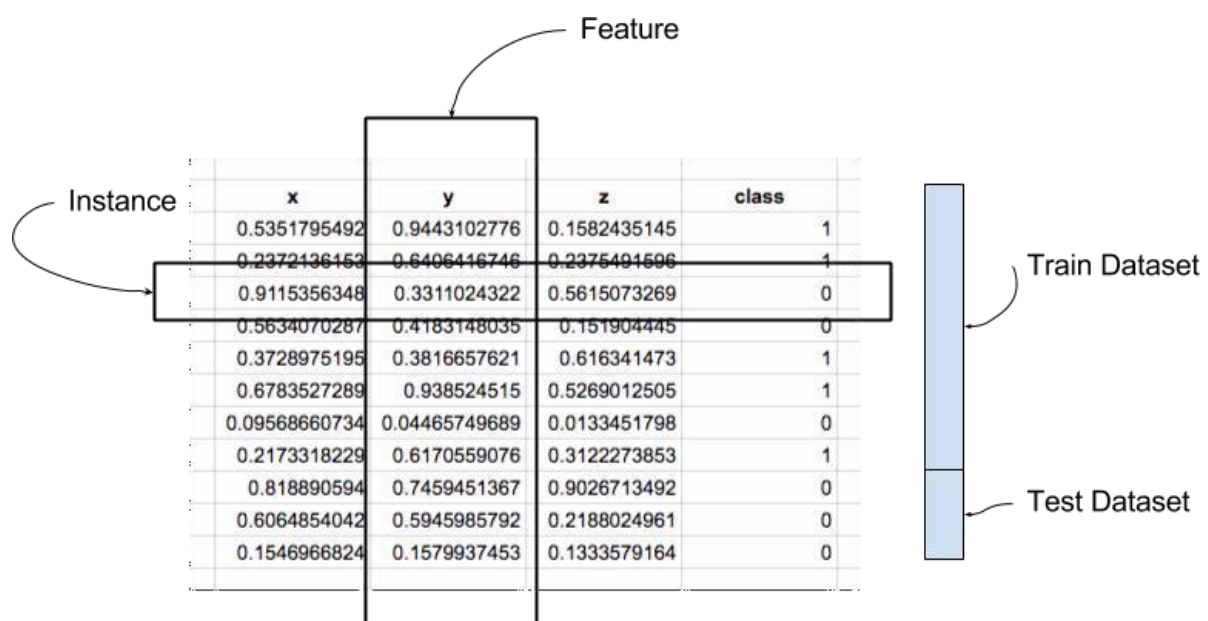
Target attribute: Target attribute is a special attribute which corresponds to the label of each instance.

Instance: Each row in the dataset is called the instance.

Datasets: A collection of instances is a dataset.

Training Dataset: A dataset that is fed into the machine learning algorithm to train the model.

Testing Dataset: A dataset that is used to validate the accuracy of the model but is not used to train the model.



WEKA:

1. Download and install weka,
2. In the window, select the explorer button from the available five buttons.
3. The weka supports two common formats for files:
ARFF-Attribute Relation File Format
CSV-Comma Separated Values

EXPLORER:

The explorer window contains preprocess, classify, cluster, associate, select attribute and visualize from which select preprocess.

OPEN FILE:

To open the default dataset into the machine.

OPEN URL:

To access the dataset in the website.

OPENDB:

To open the database which the user saved in the machine.

CHOOSE:

To select the filter option.

EDIT:

To set the filled dataset before and after the filter.

FILTERS:

To filter or tune the data.

1. REMOVE(ATTRIBUTE) :

A filter that removes a range of attributes from the dataset.

1. Open file button is clicked
2. Choose weka and open the data folder
3. Choose **heart-disease.arff**
4. In filter tab, click choose button
5. Choose unsupervised and select attribute
6. Select remove filter
7. Specify the attribute index in the filter editor window
8. Apply button is clicked
9. Choose the edit button to see the output data after filtering the attribute

2. REMOVE WITH VALUES:

Filters instances according to the value of the attribute.

1. Open file button is clicked
2. Choose heart-disease.arff
3. Choose unsupervised and select instance
4. Select “remove with values” filter
5. Set attribute index to 2 and split point to 60
6. The output contains column dataset in which the second column contains only the values which is above the split point
7. Choose the **Edit button** to view the filtered dataset

3. REPLACE WITH MISSING VALUES:

Replace all missing values for nominal and numeric attributes in a dataset with the modes and means from the training data.

1. Choose unsupervised and select attributes.
2. Select “remove missing values” filter.
3. Click “edit” and delete any one of the data.
4. Select “**Replace Missing Values**” filter
5. After applying the filter, the deleted values or any missing values are replaced by taking the mean values.
6. Click **Edit** button to view the updated dataset

4. REMOVE PERCENTAGE:

A filter that removes a given percentage of a database.

1. Choose unsupervised and select instance.
2. Select “remove percentage” filter.
3. Set percentage as “50.0”
4. After filter is applied , from the dataset 50% of the instance are removed

5. REMOVE FREQUENT VALUES:

Determine which values of attribute or retained and filters the instances accordingly.

1. Choose unsupervised and select instances.
2. Select “remove frequent values” filter.
3. Specify the attribute index as 2.

4. When apply is clicked the less frequently repeated values are removed

OUTPUT:

Dataset: heart-disease.arff

Viewer

Relation: heart-disease

No.	age	sex	cp	trestbps	chol	chol	fbs	resttrecg	thal	tat	thalach	oldpeak	oldpeak	ca	thal	Class	Class
Non.	Sex	Chest	Pain	Exercise	Cholesterol	Cholesterol	Sugar	Exercise	Nominal	Nominal	Nominal	Nominal	Nominal	Tbs	Thalin	Numeric	Nominal
1	63	male	typical_angina	145	233	233	true	normal	normal	150	2.3	down	0	fixed	disease	disease	
2	37	male	non_anginal	130	250	250	false	normal	Normal	187	3.5	3.5	0	flat	disease	disease	
3	41	female	atypical_angina	130	204	204	false	ST_abnormal	tetchy	172	1.4	1.4	0	up	disease	no_disease	
4	56	male	non_anginal	120	236	236	false	normal	ST_abnormal	173	st2	0.8	0	up	disease	no_disease	
5	57	female	typical_angina	140	354	354	false	normal	Section	163	0.5	0.6	0	flat	disease	disease	
6	57	male	asymptomatic	140	192	192	false	normal	normal	148	no	0.4	flat	0	fixed	disease	disease
7	56	female	atypical_angina	140	294	294	false	normal	normal	153	no	1.3	flat	0	sja	disease	disease
8	44	male	non_anginal	140	263	263	false	normal	normal	173	0.0	1.3	0	tern	disease	disease	
8	44	male	non_anginal	120	263	263	false	normal	Nective	173	0.0	0.0	0	up	neversible	no_disease	

Add instance

Undo

OK

Applying Remove Filter:

WEKA Explorer

Preprocess Classify Cluster Associate Select attributes Visualize

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

Remove -> 2 Apply

Current relation
Relation: heart-disease
Instances: 286

Attributes: 286
Sum of weights: 286

Selected attribute
Name: sex
Missing: 0 (0%)
Unique: 2
Type: Nominal
Unique: 2 (0%)

Attributes

Index	Name	Type
1	<input type="checkbox"/> age	Nominal
2	<input type="checkbox"/> sex	Nominal
3	<input type="checkbox"/> cp	Nominal
4	<input type="checkbox"/> trestbps	Nominal
5	<input type="checkbox"/> chol	Nominal
6	<input type="checkbox"/> fbs	Nominal
7	<input type="checkbox"/> restecg	Nominal
8	<input type="checkbox"/> thalach	Nominal
9	<input type="checkbox"/> exang	Nominal
10	<input type="checkbox"/> oldpeak	Nominal
11	<input type="checkbox"/> slope	Nominal
12	<input type="checkbox"/> ca	Nominal
13	<input type="checkbox"/> thal	Nominal
14	<input type="checkbox"/> Class	Nominal

Remove

weka.gui.GenericObjectEditor
weka.filters.unsupervised.attribute.Remove

About
A filter that removes a range of attributes from the

attributeIndices 2
debug False
doNotCheckCapabilities False
invertSelection False

Open... Save... OK Cancel

Count Weight
207 79
207 79

Visualize

Add instance Undo OK Cancel

Viewer

Relation: heart-disease

No.	age	sex	cp	trestbps	chol	chol	fb	restecg	thal	thal	oldpeak	oldpeak	ca	thal	Class	Class
Nom.	Sex	Chest	Pain	Baseuse	Cholesterol	Chol	Sugar	Diagnosis	Nominal	Nominal	Nominal	Nominal	Tibs	Thiun	Numeric	Nominal
1	63	male	typical_angina	145	233	true	normal	normal	150	2.3	down	0	fixed	disease	disease	
2	37	male	non_anginal	130	250	false	normal	Normal	187	3.5	3.5	0	flat	disease	disease	
3	41	female	atypical_angina	130	204	false	ST_abnormal	tetchy	172	1.4	1.4	0	up	disease	no_disease	
4	56	male	non_anginal	120	236	false	normal	ST_abnormal	173	st2	0.8	0	up	disease	no_disease	
5	57	female	typical_angina	140	354	false	normal	Section	163	0.5	0.6	0	flat	disease	disease	
6	57	male	asymptomatic	140	192	false	normal	normal	148	no	0.4	flat	0	fixed	disease	
7	56	female	atypical_angina	140	294	false	normal	normal	153	no	1.3	flat	0	sja	disease	
8	44	male	non_anginal	140	263	false	normal	normal	173	0.0	1.3	0	tern	disease	disease	
8	44	male	non_anginal	120	263	false	normal	Nective	173	0.0	0.0	0	up	neversible	no_disease	

Add instance

Undo

OK

Applying Remove with values Filter

WEKA Explorer

Preprocess Classify Classify Cluster Associate Select attributes Visualize

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

RemoveWithValues >5.0 <9-1 Apply

Current relation
Relation: heart-disease
Instances: 286

Attributes

Index	Name	Type
1	age	Nominal
2	sex	Nominal
3	cp	Nominal
4	trestbps	Nominal
5	chol	Nominal
6	fb	Nominal
7	restecg	Nominal
8	thalach	Nominal
9	exang	Nominal
10	oldpeak	Nominal
11	slope	Nominal
12	ca	Nominal
13	thal	Nominal
14	Class	Nominal

Remove

Attributes: 286
Sum of weights: 286

Selected attribute
Name: sex
Missing: 0 (0%)
Unique: 2
Type: Nominal
Unique: 2 (0%)

Count Weight

207	79
207	79

Visualize

weka.gui.GenericObjectEditor

weka.filters.unsupervised.instance.RemoveWithValues

About
Filters instances according to the value of an attribute.

attributeIndex 2

debug False

doNotCheckCapabilities False

dontFilterAfterFirstBatch False

invertSelection False

matchMissingValues False

modifyHeader False

nominalIndices

splitPoint 60.0

Open... Save... OK Cancel

Status: OK

Add instance Undo OK Cancel

Viewer

Relation: heart-disease--weka.filters.unsupervised.attribute.Remove-R2-weka.filters.unsupervised.instance.RemoveWithValues-S0.0-C9-L1 Instance

No.	2.	age	sex	cp	trestbps	chol	(ffs)	ffs	restecg	thalach	exang	oldpeak	slope	ca	thal	ot	Class
Noraal		2ostbae	-weks	Rem...	Oprornaal	flonremss...	Eavabcg	Eavneg	Oporisael	Opr-rvital	Skpicclh	Opr-rvital	Nonnal	fla	Eaing	tha	Nommal
1	63	female	typical_angina		120	354	false	ST_abnormal		163	yes	0.6	0	flat	0	disease	
2	57	female	atypical_angina		140	294	false	normal		153	no	1.3	0	flat	0	disease	
3	66	female	typical_angina		178	228	false	ST_abnormal		165	yes	1.0	0	flxt	2	disease	
4	80	female	asymptomatic		102	226	false	ST_abnormal		178	no	1.0	0	flxt	2	disease	
5	54	female	asymptomatic		140	309	false	normal		140	yes	0.0	1	fixt	0	disease	
6	69	female	asymptomatic		160	286	false	ST_abnormal		108	yes	1.5	3	flxt	3	disease	
7	58	female	atypical_angina		136	319	false	normal		152	yes	0.0	2	fixed	0	disease	
8	61	female	asymptomatic		130	330	false	ST_abnormal		169	no	1.0	0	flat	1	disease	
9	68	female	asymptomatic		133	253	false	normal		165	no	0.0	0	fixed	0	disease	
10	69	female	asymptomatic		150	212	false	ST_abnormal		108	no	1.5	2	flat	2	disease	
11	67	female	atypical_angina		158	212	false	ST_abnormal		99	no	0.4	2	fixed	2	disease	
12	62	female	atypical_angina		138	294	false	ST_abnormal		106	no	1.9	3	flat	3	disease	

Add instance

Undo

OK

Cancel

Applying Replacing Missing Value Filter

WEKA Explorer

Preprocess Classify Cluster Associate Select attributes Visualize

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

Filter

Choose **ReplaceMissingValues** Apply

Current relation

Relation: heart-disease-weka.filters.unsupervised.attribute.Remove-R2-weka.filters.unst: 286 instances: 13

Attributes

All None Invert Pattern

Index	Name	Name
1	<input checked="" type="checkbox"/> age	
2	<input type="checkbox"/> sex	
3	<input type="checkbox"/> cp	
4	<input type="checkbox"/> trestbps	
5	<input type="checkbox"/> chol	
6	<input type="checkbox"/> fbs	
7	<input type="checkbox"/> restecg	
8	<input type="checkbox"/> thalach	
9	<input type="checkbox"/> exang	
10	<input type="checkbox"/> oldpeak	
11	<input type="checkbox"/> slope	
12	<input type="checkbox"/> ca	
13	<input type="checkbox"/> Class	

Remove

Selected attribute

Name: age
Missing: 0 (0%)
Distinct: 5
Type: Nominal
Unique: 5 (11%)

No.	Label	Count	Weight
2	10-19	0	0
3	20-29	0	0
4	30-39	15	0
5	40-49	90	72
6	50-59	72	67
7	60-69	67	42
8	70-79	42	0
9	90-99	0	0

Class: Class (Nom) Visualize

Status: OK

Add instance Undo OK Cancel

Viewer

Relation: heart-disease-weka.filters.unsupervised.attribute.Remove-R2-weka.filters.unsupervised.instance.Remove.RemoveWithValues-S0.0-C9-L1

No.	1: age Nominal	2: sex Nominal	cp Nominal	cp Nominal	trestbps Numeric	5: chol Numeric	7: fbs Nominal	7: restecg Nominal	8: thalach Numeric	9: exang Numeric	Oldpeak Numeric	11: slope Nominal	12: 11 Nominal	Class Nominal	
1	63	female	typical_angina	typical_angina	120	354	false	ST_abnormal	163	yes	0.6	flat	0	0	disease
2	57	female	atypical_angina	atypical_angina	140	294	false	normal	153	no	1.3	flat	0	0	disease
3	66	female	typical_angina	typical_angina	178	228	false	ST_abnormal	165	yes	1.0	flat	2	2	disease
4	80	female	asymptomatic	asymptomatic	102	226	false	ST_abnormal	178	no	1.0	flat	1	1	disease
5	54	female	asymptomatic	asymptomatic	140	309	false	normal	140	yes	0.0	up	1	1	disease
6	67	female	asymptomatic	asymptomatic	160	286	false	ST_abnormal	108	yes	1.5	flat	3	3	disease
7	58	female	atypical_angina	atypical_angina	136	319	false	normal	152	yes	0.0	up	2	2	disease
8	61	female	asymptomatic	asymptomatic	130	330	false	ST_abnormal	169	yes	0.0	flat	0	1	disease
9	68	female	asymptomatic	asymptomatic	133	253	false	normal	165	no	0.0	flat	1	2	disease
10	69	female	asymptomatic	asymptomatic	160	212	false	ST_abnormal	108	no	1.5	flat	2	2	disease
11	67	female	asymptomatic	asymptomatic	152	212	false	ST_abnormal	99	no	0.4	flat	2	2	disease
12	62	female	atypical_angina	atypical_angina	138	294	false	ST_abnormal	106	no	1.9	flat	3	3	disease

Status:

Add instance

Undo

OK

Cancel

Applying Remove Percentage Filter

WEKA Explorer

Preprocess Classify Cluster Associate Select attributes Visualize

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

Filter
Choose **RemovePercentage** -P-30.0 Apply

Current relation
Relation: heart-disease-weka.filters.unsupervised.attribute.Remove-R2-weka.filters... 300
instances: 200

Selected attribute
Name: age
Missing: 0 (0%)
Distinct: 5
Type: Nominal
Unique: 5 (11%)

Attributes
All None

Index	Name	Value
1	age	10
2	sex	female
3	cp	typical_angina
4	trestbps	120
5	chol	354
6	fbs	false
7	restecg	ST_abnormal
8	thalach	163
9	exang	yes
10	oldpeak	0.6
11	slope	flat
12	ca	0
13	Class	disease

Remove

weka.gui.GenericObjectEditor
weka.filters.unsupervised.instance.RemovePercentage
About
A filter that removes a given percentage of a dataset.
debug False
doNotCapabilities False
invertSelection False
percentage 30
Open... Save... OK Cancel

Label	Count	Weight
0	0	0
0	0	0
8	8	8
63	63	63
54	54	54
44	31	31
31	0	0

x (Nom) Visualize

0 0 10 40-49 50-59 60-69 80-89 0

Status: OK

Add instance Undo OK Cancel

Viewer

Relation: heart-disease-weka.filters.unsupervised.attribute.Remove-R2-weka.filters.unsupervised.instance.RemovePercentage-P30.0

No.	1: age Nominal	2: sex Nrestbps	cp Nominal	trestbps Abnominal	5: chol Nominal	6: fbs Nominal	7: restecg Nominal	8: rhrigh Eopcal	thalach Sonical	9: exang Nominal	10: oldpeak (Aponines)	12: slope Numinal	Class Nominal
1	62	female	typical_angina		138	false	ST_abnormal	106	106	no	1.9	3	disease
2	57	female	asymptomatic		136	false	normal	229	152	no	1.0	2	disease
3	66	female	typical_angina		178	false	ST_abnormal	178	165	no	1.0	2	disease
4	58	female	typical_angina		228	false	normal	152	173	yes	1.0	2	disease
5	80	female	asymptomatic		102	false	ST_abnormal	178	178	no	1.5	2	disease
6	81	female	asymptomatic		130	false	normal	178	169	yes	1.0	1	disease
7	81	female	asymptomatic		102	false	ST_abnormal	163	178	ne	2.0	2	disease
8	80	female	asymptomatic		159	false	normal	214	228	no	3.0	1	disease
9	81	female	asymptomatic		198	false	(fss?)	163	209	no	3.0	2	disease
10	80	female	asymptomatic		198	false	nasou?le	318	152	no	3.0	1	disease
11	81	female	asymptomatic		100	false	normal	168	109	no	0.0	2	disease
12	81	female	asymptomatic		130	false	fiasel	228	213	usv	3.0	1	disease
13	66	female	asymptomatic		120	false	normal	209	228	yes	2.0	4	disease
14	74	female	asymptomatic		100	false	faset	121	106	no	1.9	3	disease

Sevics:

Add instance

Undo

OK

Cancel

Applying Remove Frequent Values Filter

WEKA Explorer

Preprocess Classify Cluster Associate Select attributes Visualize

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

Filter Choose RemoveFrequentValues -C13-N1 Apply

Current relation Relation: heart-disease-weka.filters.unsupervised.attribute.Remove-R2-weka.filters... instances: 31 Selected attribute Name: age Type: Nominal Distinct: 4 Unique: 0 (0%)

Attributes

Index	Name	Name
1	<input type="checkbox"/> age	
2	<input type="checkbox"/> sex	
3	<input type="checkbox"/> cp	
4	<input type="checkbox"/> trestbps	
5	<input type="checkbox"/> chol	
6	<input type="checkbox"/> fbs	
7	<input type="checkbox"/> restecg	
8	<input type="checkbox"/> thalach	
9	<input type="checkbox"/> exang	
10	<input type="checkbox"/> oldpeak	
11	<input type="checkbox"/> slope	
12	<input type="checkbox"/> ca	
13	<input type="checkbox"/> Class	

Remove

weka.gui.GenericObjectEditor

weka.filters.unsupervised.instance.RemoveFrequentValues

About

Determines which values (frequent or infrequent ones) of an (nominal) attribute are retained and filters the instances accordingly.

attributeIndex 13

debug False

doNotCheckCapabilities False

invertSelection False

modifyHeader False

numValues 1

useLeastValues False

Open... Save... OK Cancel

Label	Count	Weight
0	0	
0	0	
7	7	
7	7	
7	7	
7	7	
7	7	
7	0	

Visualize

0 0 0 40-49 50-59 60-79 0 0

Status: OK

Add instance Undo OK Cancel

WEKA Explorer

Viewer

Relation: heart-disease-weka.filters.unsupervised.attribute.Remove-R2-weka.filters.unsupervised.instance.RemoveFrequentValues-C13-N1

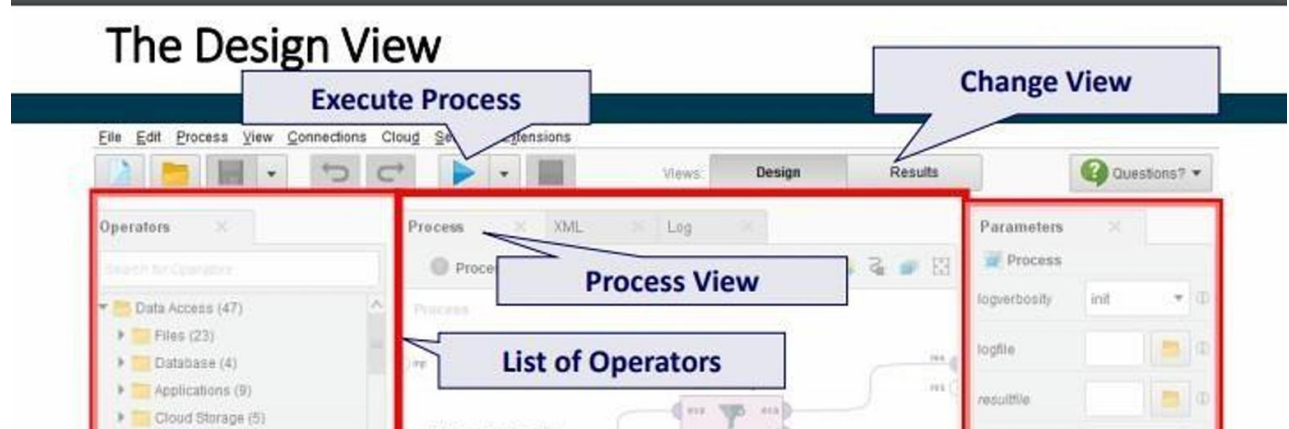
No.	1: age Nominal	2: sex Nominal	cp Nominal	4: trestbps Numeric	5: chol Numeric	6: fbs Numeric	7: restecg Numeric	8: thalach Nominal	9: exang Numeric	10: oldpeak Slope	11: slope Nominal
1	62	female	male	typical_angina	138	false	ST_abnormal	106	no	1.9	flat
2	57	female	male	asymptomatic	136	false	normal	229	no	1.0	up
3	66	female	female	typical_angina	178	false	ST_abnormal	165	no	1.0	flat
4	58	female	female	typical_angina	136	false	normal	152	yes	1.0	flat
5	80	female	female	asymptomatic	102	false	ST_abnormal	178	yes	1.5	flat
6	81	female	female	asymptomatic	102	false	normal	214	no	2.0	up
7	80	female	female	asymptomatic	130	false	nasoule	136	yes	3.0	flat
8	61	female	female	asymptomatic	150	false	ST_abnormal	169	yes	1.5	up
9	58	male	female	asymptomatic	150	false	normal	111	yes	0.0	up
11	55	male	male	asymptomatic	150	false	ST_abnormal	182	yes	1.4	flat
12	62	male	male	asymptomatic	270	false	normal	103	yes	1.4	flat
13	81	male	male	asymptomatic	178	false	nasoule	112	yes	3.0	flat
14	77	male	male	asymptomatic	125	false	normal	232	yes	1.5	up
15	57	male	male	atypical_angina	128	false	fasel	150	no	1.0	up
15	59	male	asymptomatic	134	false	ST_abnormal	134	yes	2.8	flat	
16	57	male	asymptomatic	134	false	ST_abnormal	409	yes	2.8	flat	

Status: OK

Add instance Undo OK Cancel

RAPIDMINER:

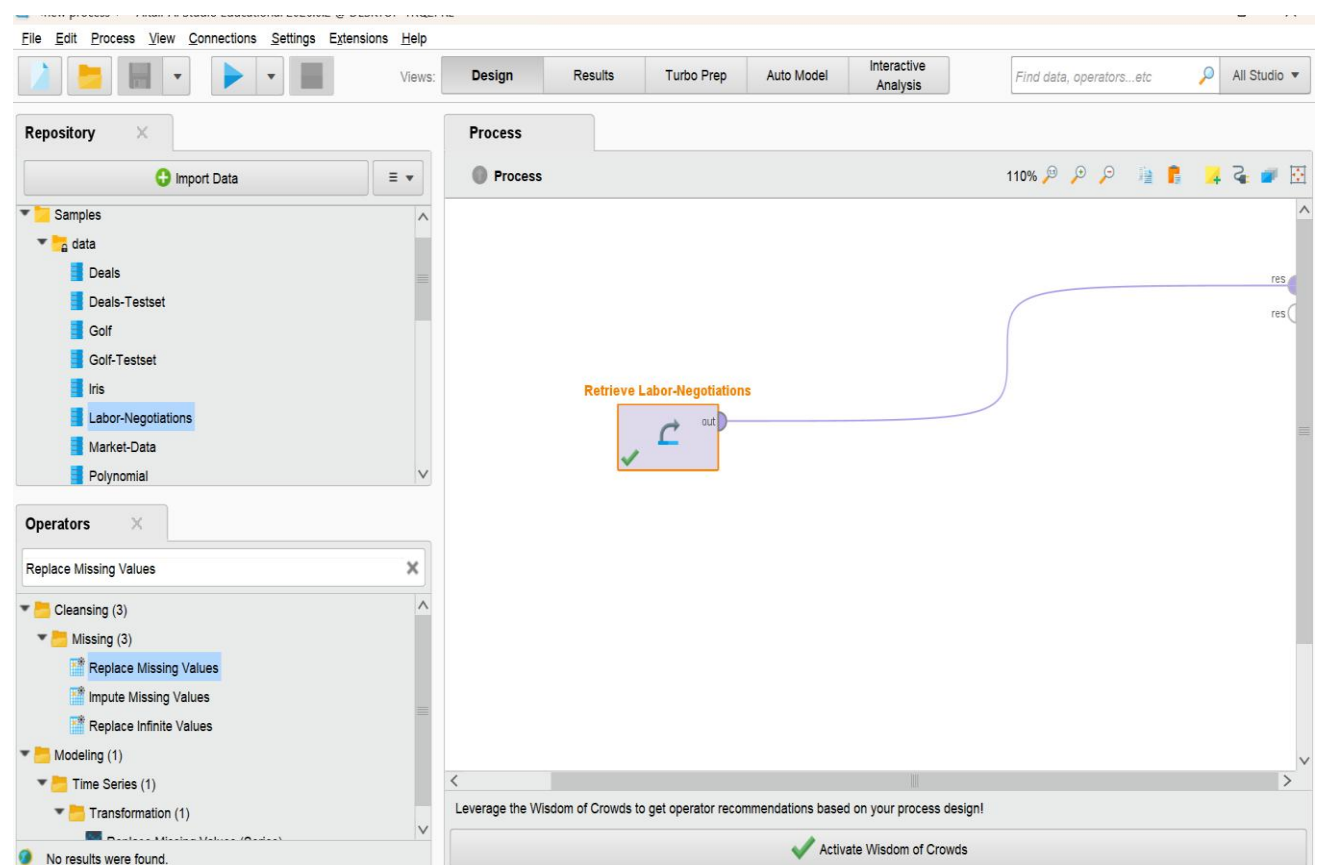
Design View



Preprocessing: Replace missing values

1. Load the Labor-Negotiations data set from the Samples folder.
2. Drag and drop the Replace Missing Values Operator. It applies the replacement on all attributes in the dataset which have at least one missing value.
3. Click the play button and view the output.

Dataset with missing values:



Altair AI Studio Educational 2026.0.2 @ DESKTOP-TRQ2PRL

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Interactive Analysis

Find data, operators...etc All Studio

Result History ExampleSet (Retrieve Labor-Negotiations)

Open in Turbo Prep Auto Model Interactive Analysis Filter (40 / 40 examples): all

Row No.	class	duration	wage-inc-1st	wage-inc-2nd	wage-inc-3rd	col-adj	working-ho...	pension
1	good	1	5	?	?	?	40	?
2	good	2	4.500	5.800	?	?	35	ret_allw
3	good	?	?	?	?	?	38	empl_conti
4	good	3	3.700	4	5	tc	?	?
5	good	3	4.500	4.500	5	?	40	?
6	good	2	2	2.500	?	?	35	?
7	good	3	4	5	5	tc	?	empl_conti
8	good	3	6.900	4.800	2.300	?	40	?
9	good	2	3	7	?	?	38	?
10	good	1	5.700	?	?	none	40	empl_conti
11	good	3	3.500	4	4.600	none	36	?
12	good	2	6.400	6.400	?	?	38	?
13	bad	2	3.500	4	?	none	40	?
14	good	3	3.500	4	5.100	tcf	37	?
15	good	1	3	?	?	none	36	?

ExampleSet (40 examples, 1 special attribute, 16 regular attributes)

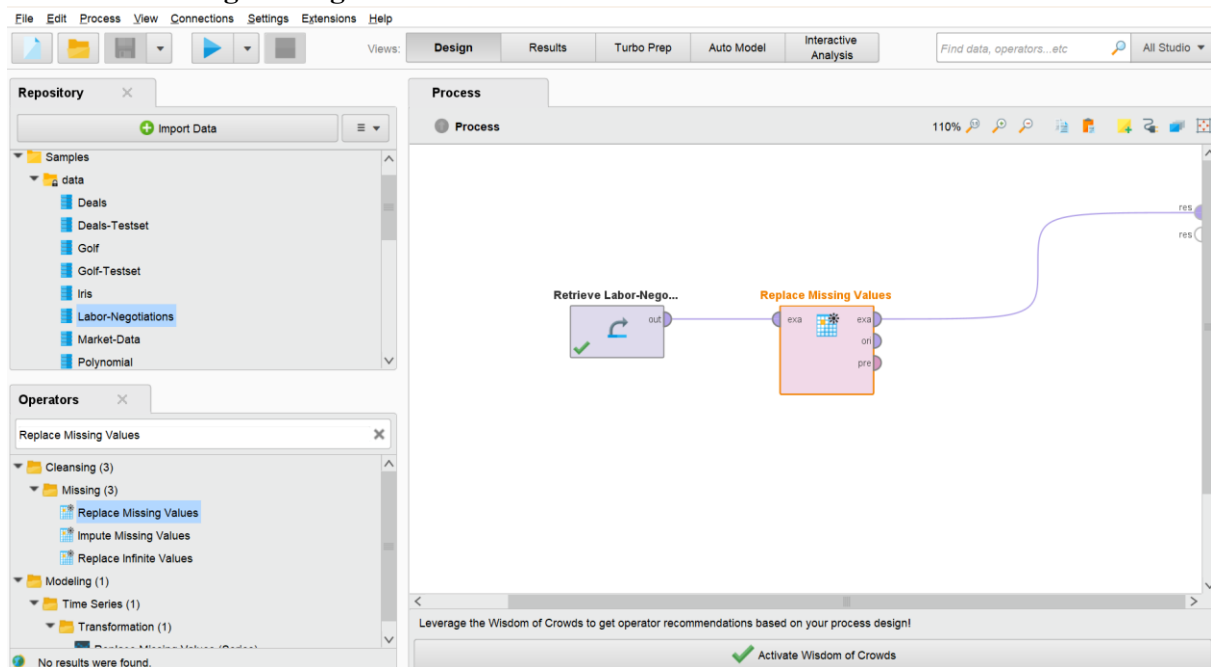
Repository

Import Data

Training Resources (connected)

- Samples
 - data
 - Deals
 - Deals-Testset
 - Golf
 - Golf-Testset
 - Iris
 - Labor-Negotiations
 - Market-Data
 - Polynomial
 - Products
 - Purchases
 - Ripley-Set
 - Sonar
 - Titanic
 - Titanic Training
 - Titanic Unlabeled
 - Transactions
 - Weighting
 - processes
 - Templates
 - Time Series

Dataset after filling missing values:



Altair AI Studio Educational 2026.0.2 @ DESKTOP-TRQ2PRL

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model Interactive Analysis

Find data, operators...etc All Studio

Result History ExampleSet (Replace Missing Values)

Open in Turbo Prep Auto Model Interactive Analysis Filter (40 / 40 examples): all

Row No.	class	duration	wage-inc-1st	wage-inc-2nd	wage-inc-3rd	col-adj	working-ho...	pension
1	good	1	5	3.913	3.767	none	40	none
2	good	2	4.500	5.800	3.767	none	35	ret_allw
3	good	2	3.621	3.913	3.767	none	38	empl_conti
4	good	3	3.700	4	5	tc	38	none
5	good	3	4.500	4.500	5	none	40	none
6	good	2	2	2.500	3.767	none	35	none
7	good	3	4	5	5	tc	38	empl_conti
8	good	3	6.900	4.800	2.300	none	40	none
9	good	2	3	7	3.767	none	38	none
10	good	1	5.700	3.913	3.767	none	40	empl_conti
11	good	3	3.500	4	4.600	none	36	none
12	good	2	6.400	6.400	3.767	none	38	none
13	bad	2	3.500	4	3.767	none	40	none
14	good	3	3.500	4	5.100	tcf	37	none
15	good	1	3	3.913	3.767	none	36	none

ExampleSet (40 examples, 1 special attribute, 16 regular attributes)

Repository

Import Data

Training Resources (connected)

- Samples
 - data
 - Deals
 - Deals-Testset
 - Golf
 - Golf-Testset
 - Iris
 - Labor-Negotiations
 - Market-Data
 - Polynomial
 - Products
 - Purchases
 - Ripley-Set
 - Sonar
 - Titanic
 - Titanic Training
 - Titanic Unlabeled
 - Transactions
 - Weighting
 - processes
 - Templates
 - Time Series

UCI Repository:

The screenshot shows the 'Browse Datasets' page of the UCI Machine Learning Repository. On the left, there is a 'Filters' sidebar with expandable sections for Keywords, Attributes, Data Type, Subject Area, Task, # Instances, # Features, and Python. The main area is titled 'Browse Datasets' and includes a search bar, a 'SORT BY # VIEWS, DESC' button, and an 'EXPAND ALL' button. A dataset card for 'Heart Disease' is displayed, showing it consists of 4 databases (Cleveland, Hungary, Switzerland, and the VA Long Beach), is for Classification tasks, is Multivariate, and has 303 instances.

Sample dataset:

The screenshot shows the detailed page for the 'Heart Disease' dataset. The header includes the dataset name, a download icon, and the download size (289 KB). Below the header, there are buttons for 'IMPORT IN PYTHON' and 'CITE'. The main content area is divided into sections: 'Dataset Characteristics' (Multivariate), 'Subject Area' (Cleveland, Hungary, Switzerland, VA Long Beach), 'Associated Tasks' (Classification), '# Instances' (303), and '# Features' (13). There is also a section for 'Additional Information' which states that the dataset consists of four databases and can be downloaded as separate files. It also mentions 'Has Missing Values? Yes'. An 'Introductory Paper' section provides a link to a paper by D.D. Lissner and M. A. Clark from 1989. On the right side, there are statistics for '120 citations' and '5,048 views', a 'Keywords' section with 'health' and 'cardiology', and a 'Creators' section listing 'D.D. Lissner' and 'M.A. Clark'. At the bottom, there is a 'Variables Table' button and a row of buttons: 'Add Instance', 'Undo', 'QK', and 'Cancel'.

Conclusion: The various features of Weka Tool, Rapidminer Tool and UCI Repository datasets have been explored.

MARK ALLOCATION	
Conduct of Experiment(30)	
Record Observation (20)	
Viva (10)	
Total (60)	
Signature of the Faculty with Date	