Using Filters to Remove Attributes:s
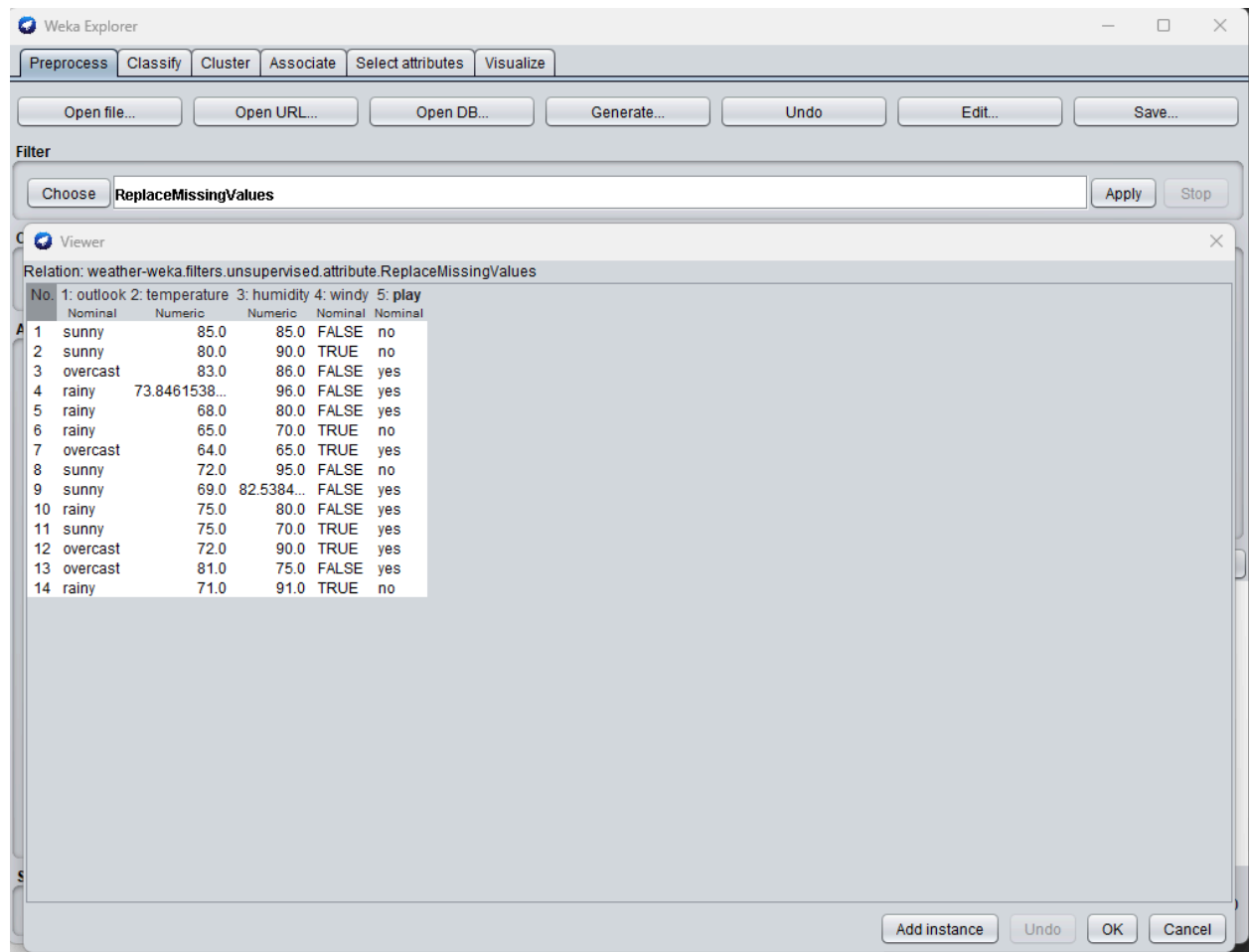

Handling missing data:

Unsupervised Attribute Filter – ReplaceMissingValues:

Using Filters to handle outliers and extreme values:

Unsupervised Attribute Filter – InterquartileRange:

Weka Explorer

Preprocess | Classify | Cluster | Associate | Select attributes | Visualize

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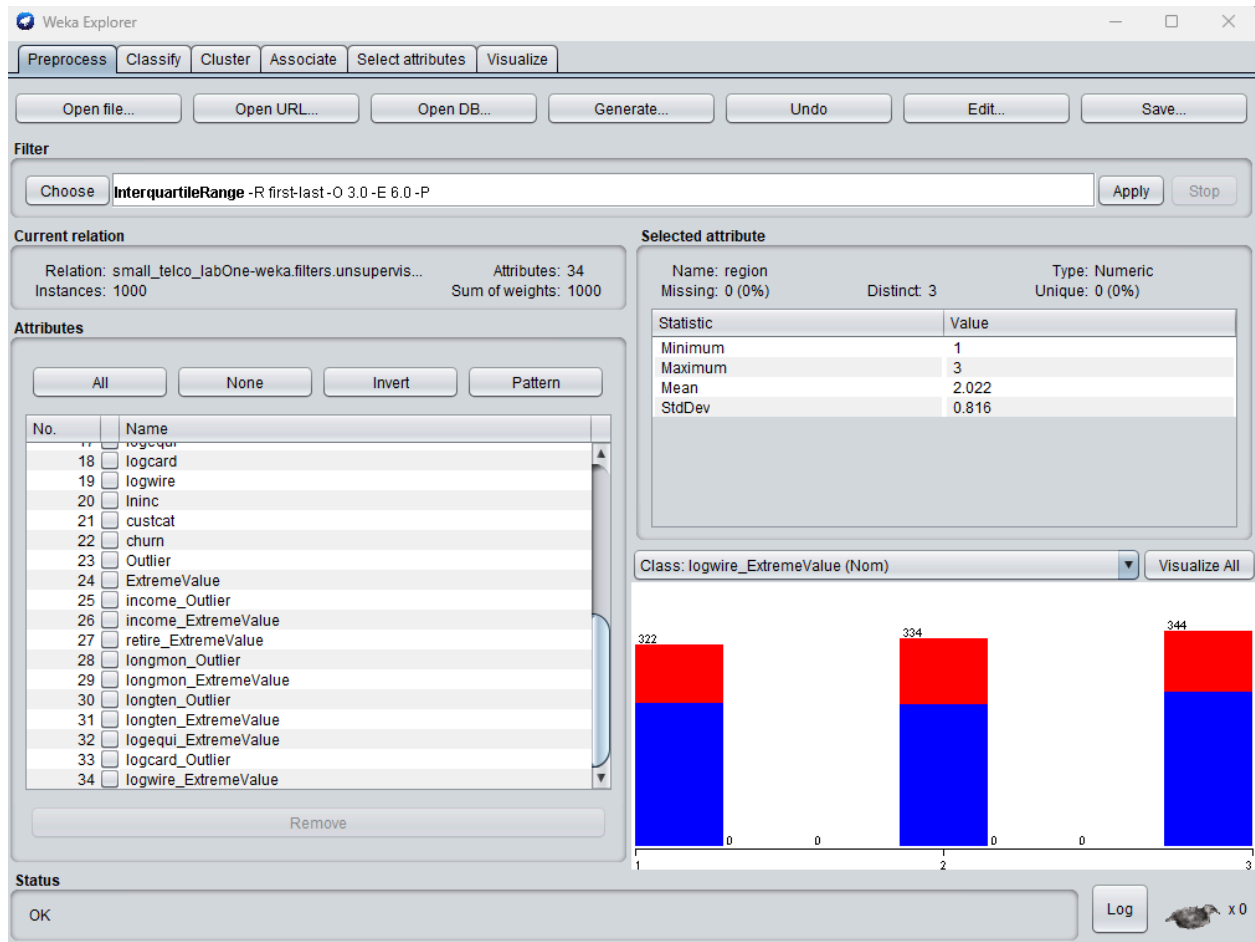
Filter

Choose | InterquartileRange -R first-last -O 3.0 -E 6.0 | Apply | Stop

Viewer

Relation: small_telco_labOne-weka.filters.unsupervised.attribute.ReplaceMissingValues-weka.filters.unsupervised.attribute.InterquartileRange-Rfirst-last-O3.0-E6.0

: gender	11: reside	12: longmon	13: longten	14: internet	15: ebill	16: loglong	17: logequi	18: logcard	19: logwire	20: lninc	21: custcat	22: churn	23: Outlier	24: ExtremeValue
Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Nominal	Nominal
0.0	2.0	3.7	37.45	0.0	0.0	1.30833...	3.56809...	2.01490...	3.59829...	4.158...	1.0	1.0	no	no
0.0	6.0	4.4	42.0	0.0	0.0	1.48160...	3.56809...	2.72457...	3.57515...	4.912...	4.0	1.0	no	yes
1.0	2.0	18.15	1300.6	0.0	0.0	2.89867...	3.56809...	3.40949...	3.59829...	4.753...	3.0	0.0	no	no
1.0	1.0	9.45	288.8	0.0	0.0	2.24601...	3.56809...	2.85420...	3.59829...	3.496...	1.0	1.0	no	no
0.0	4.0	6.3	157.05	0.0	0.0	1.84054...	3.56809...	2.85420...	3.59829...	3.401...	3.0	0.0	no	no
1.0	1.0	11.8	487.4	0.0	0.0	2.46809...	3.56809...	2.60268...	3.59829...	4.356...	3.0	0.0	no	no
1.0	5.0	10.9	504.5	1.0	1.0	2.38876...	3.56809...	2.16905...	3.59829...	2.944...	2.0	1.0	no	no
0.0	3.0	6.05	239.55	1.0	1.0	1.80005...	3.91402...	3.14630...	4.17284...	4.330...	4.0	0.0	no	yes
0.0	5.0	9.75	449.05	0.0	0.0	2.27726...	3.56809...	2.48490...	3.59829...	5.111...	3.0	0.0	no	no
0.0	3.0	24.15	1659.7	0.0	0.0	3.18428...	3.56809...	2.80336...	3.59829...	4.276...	2.0	0.0	no	no
1.0	1.0	4.85	17.25	1.0	1.0	1.57897...	3.26384...	2.85420...	3.59829...	4.828...	1.0	1.0	no	yes
1.0	1.0	7.1	47.45	0.0	0.0	1.96009...	3.56809...	3.16758...	3.59829...	4.382...	3.0	0.0	no	no
1.0	3.0	8.55	308.7	0.0	0.0	2.14593...	3.56809...	3.73169...	3.59829...	3.610...	1.0	0.0	no	no
1.0	3.0	15.6	825.35	1.0	1.0	2.74727...	3.84374...	2.85420...	4.11169...	4.744...	4.0	1.0	no	yes
1.0	2.0	4.4	36.8	0.0	0.0	1.48160...	3.56809...	2.85420...	3.59829...	3.218...	1.0	0.0	no	no
0.0	4.0	5.1	146.25	1.0	0.0	1.62924...	3.40949...	2.42036...	3.59829...	4.317...	2.0	0.0	no	yes
0.0	1.0	16.15	946.9	0.0	0.0	2.78192...	3.44361...	3.40119...	3.59829...	5.087...	3.0	0.0	no	yes
1.0	3.0	6.65	230.8	0.0	0.0	1.89461...	3.56809...	2.85420...	3.59829...	3.891...	3.0	0.0	no	no
1.0	1.0	1.05	1.05	0.0	0.0	0.04879...	3.56809...	2.85420...	3.59829...	2.995...	1.0	0.0	no	no
0.0	4.0	6.7	140.95	1.0	1.0	1.90210...	3.87328...	3.18841...	3.64544...	4.343...	4.0	1.0	no	yes
1.0	1.0	3.75	25.65	1.0	0.0	1.32175...	3.52046...	2.85420...	2.92852...	2.772...	2.0	1.0	no	yes
0.0	2.0	20.7	1391.05	0.0	0.0	3.03013...	3.56809...	3.09104...	3.59829...	4.787...	1.0	0.0	no	no
1.0	2.0	5.3	253.35	1.0	1.0	1.66770...	3.90399...	3.28653...	3.93963...	4.615...	4.0	0.0	no	yes
0.0	3.0	15.05	810.45	0.0	0.0	2.71137...	3.56809...	3.30505...	3.59829...	4.204...	1.0	0.0	no	no
0.0	5.0	12.5	153.75	0.0	0.0	2.52572...	3.56809...	2.89037...	3.59829...	3.583...	3.0	0.0	no	no
1.0	3.0	2.2	2.2	0.0	0.0	0.78845...	3.56809...	3.70130...	3.59829...	3.496...	3.0	0.0	no	no
1.0	1.0	8.25	399.15	1.0	1.0	2.11021...	3.60821...	3.33220...	3.62167...	3.610...	4.0	0.0	no	yes
0.0	4.0	9.1	234.95	0.0	0.0	2.20827...	3.56809...	2.85420...	3.59829...	3.433...	3.0	0.0	no	no
	3.0	3.0	25.25	0.0	0.0	1.06471	3.56809	2.85420	3.59829	3.823	1.0	0.0	no	no

Add instance | Undo | OK | Cancel

Unsupervised Instance Filter – RemoveWithValues:

Using filters to perform normalization:

Unsupervised Attribute Filter – Normalize:

Weka Explorer

Preprocess | Classify | Cluster | Associate | Select attributes | Visualize

Viewer

Relation: weather-weka.filters.unsupervised.attribute.ReplaceMissingValues-weka.filters.unsupervised.attribute.Normalize-S1.0-T0.0-unset-class-temporarily

No.	1: outlook	2: temperature	3: humidity	4: windy	5: play
	Nominal	Numeric	Numeric	Nominal	Nominal
1	sunny	1.0	0.64516...	FALSE	no
2	sunny	0.76190476...	0.80645...	TRUE	no
3	overcast	0.90476190...	0.67741...	FALSE	yes
4	rainy	0.46886447...	1.0	FALSE	yes
5	rainy	0.19047619...	0.48387...	FALSE	yes
6	rainy	0.04761904...	0.16129...	TRUE	no
7	overcast	0.0	0.0	TRUE	yes
8	sunny	0.38095238...	0.96774...	FALSE	no
9	sunny	0.23809523...	0.56575...	FALSE	yes
10	rainy	0.52380952...	0.48387...	FALSE	yes
11	sunny	0.52380952...	0.16129...	TRUE	yes
12	overcast	0.38095238...	0.80645...	TRUE	yes
13	overcast	0.80952380...	0.32258...	FALSE	yes
14	rainy	0.33333333...	0.83870...	TRUE	no

Add instance | Undo | OK | Cancel

Status

OK

Log | x 0