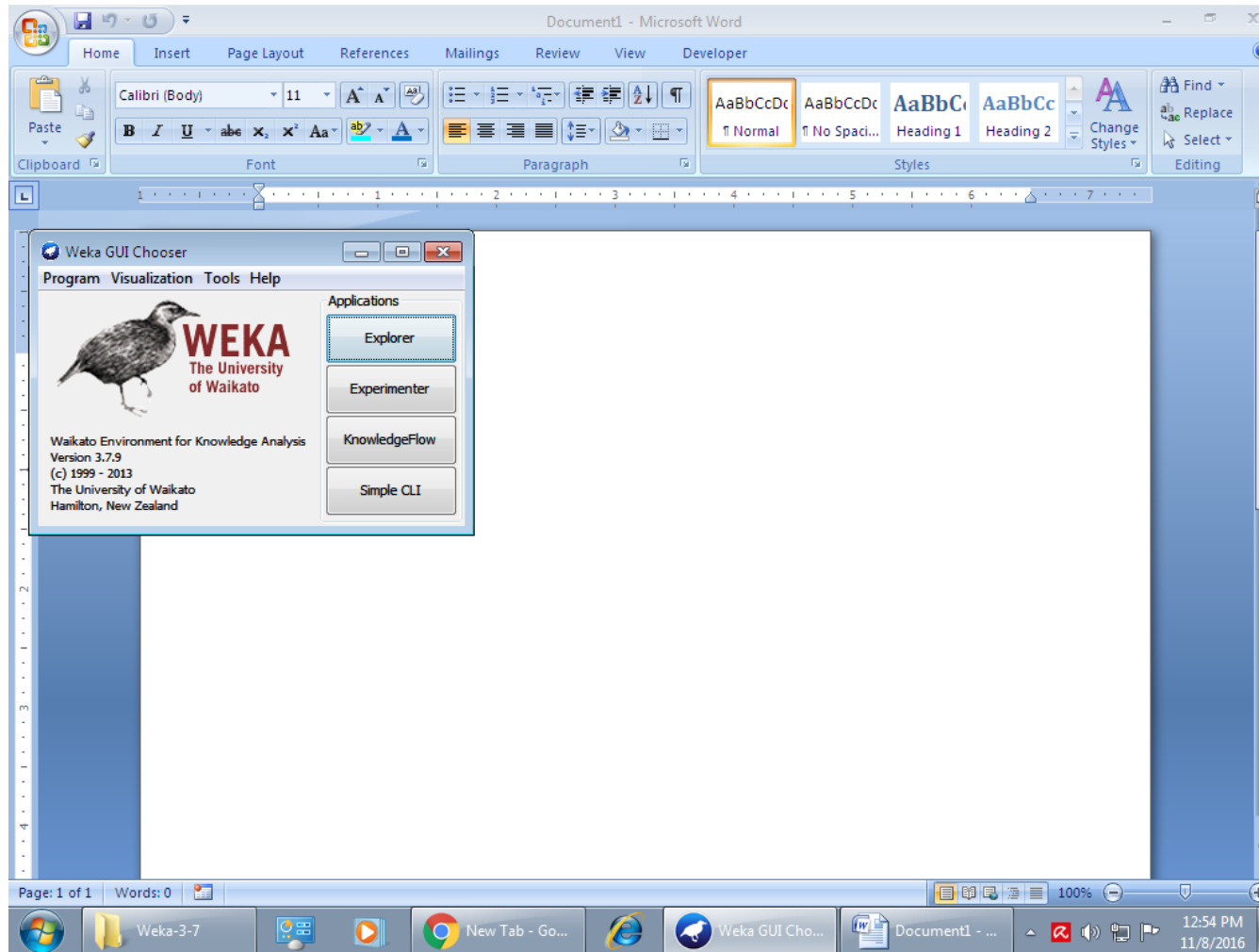
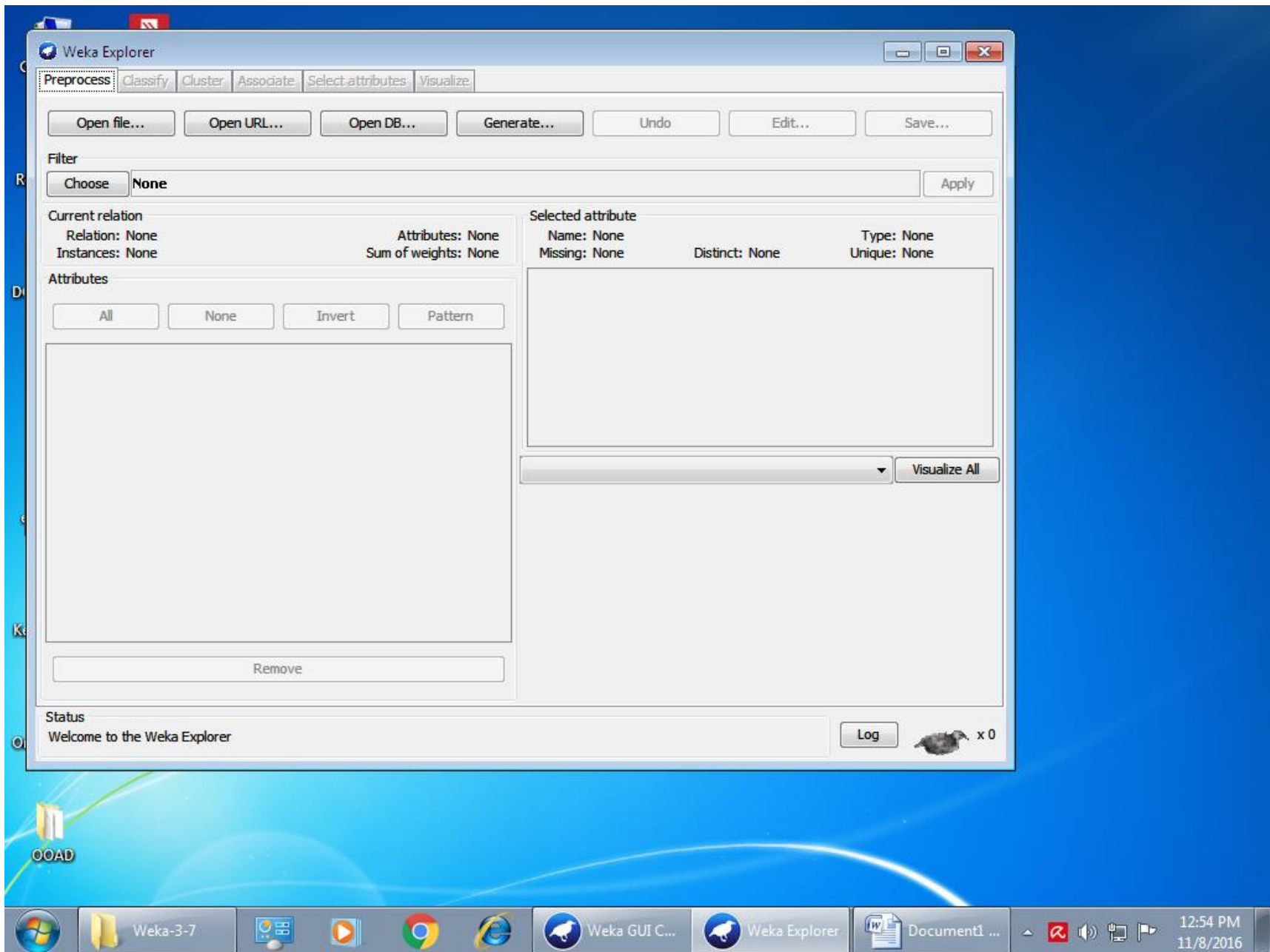
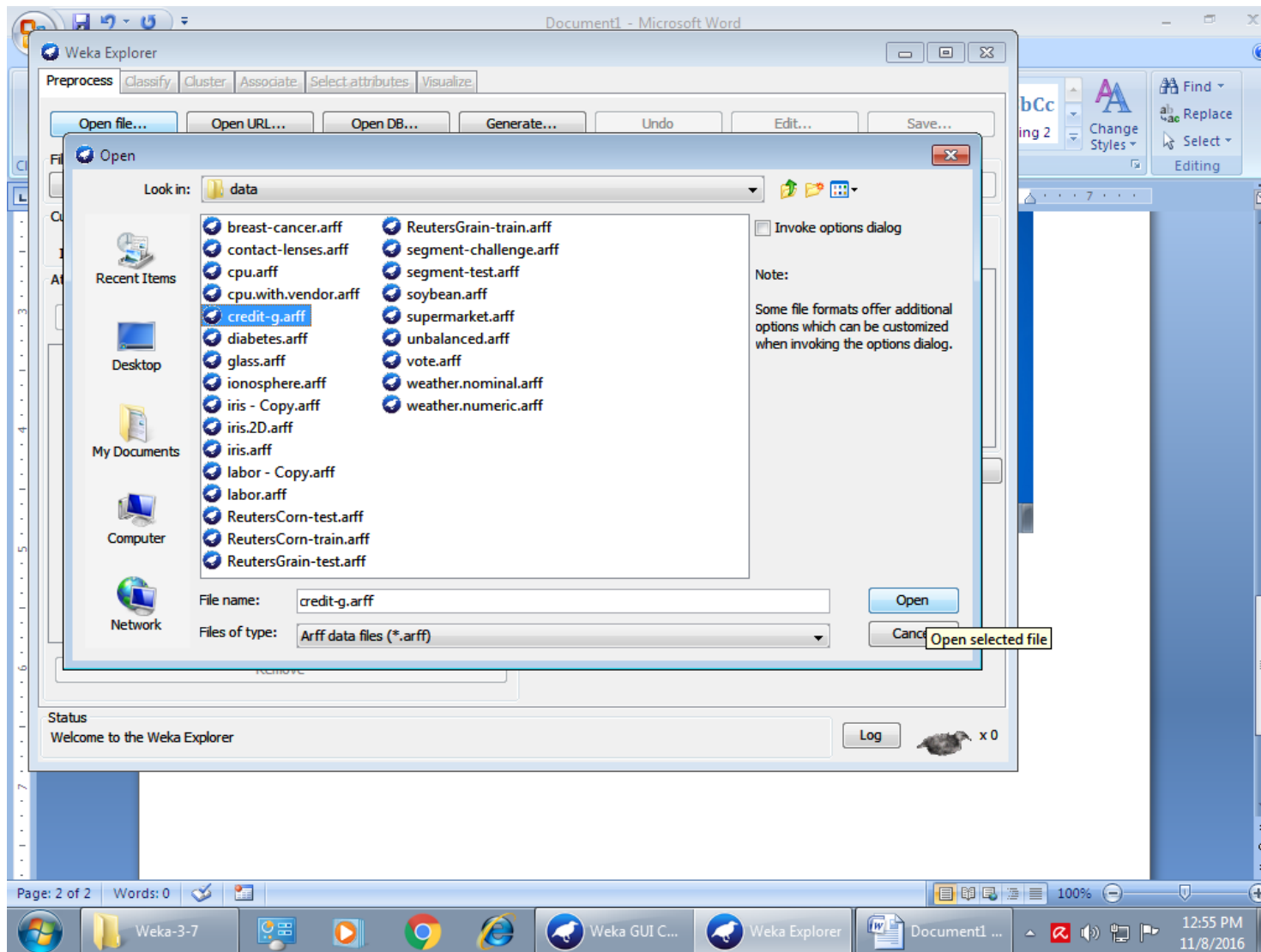


DWDM LAB practical 1

(WEKA)







Document1 - Microsoft Word

Weka Explorer

Preprocess Classify Cluster Associate Select attributes Visualize

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

Filter
Choose None Apply

Current relation
Relation: german_credit
Instances: 1000
Attributes: 21
Sum of weights: 1000

Attributes
All None Invert Pattern

No.	Name
1	<input checked="" type="checkbox"/> checking_status
2	<input type="checkbox"/> duration
3	<input type="checkbox"/> credit_history
4	<input type="checkbox"/> purpose
5	<input type="checkbox"/> credit_amount
6	<input type="checkbox"/> savings_status
7	<input type="checkbox"/> employment
8	<input type="checkbox"/> installment_commitment
9	<input type="checkbox"/> personal_status
10	<input type="checkbox"/> other_parties
11	<input type="checkbox"/> residence_since
12	<input type="checkbox"/> property_magnitude
13	<input type="checkbox"/> age
14	<input type="checkbox"/> other_payment_plan

Remove

Status
OK

Log x 0

Selected attribute
Name: checking_status
Missing: 0 (0%)
Distinct: 4
Type: Nominal
Unique: 0 (0%)

No.	Label	Count	Weight
1	<0	274	274.0
2	0<=X<200	269	269.0
3	>=200	63	63.0
4	no checking	394	394.0

Class: class (Nom) Visualize All

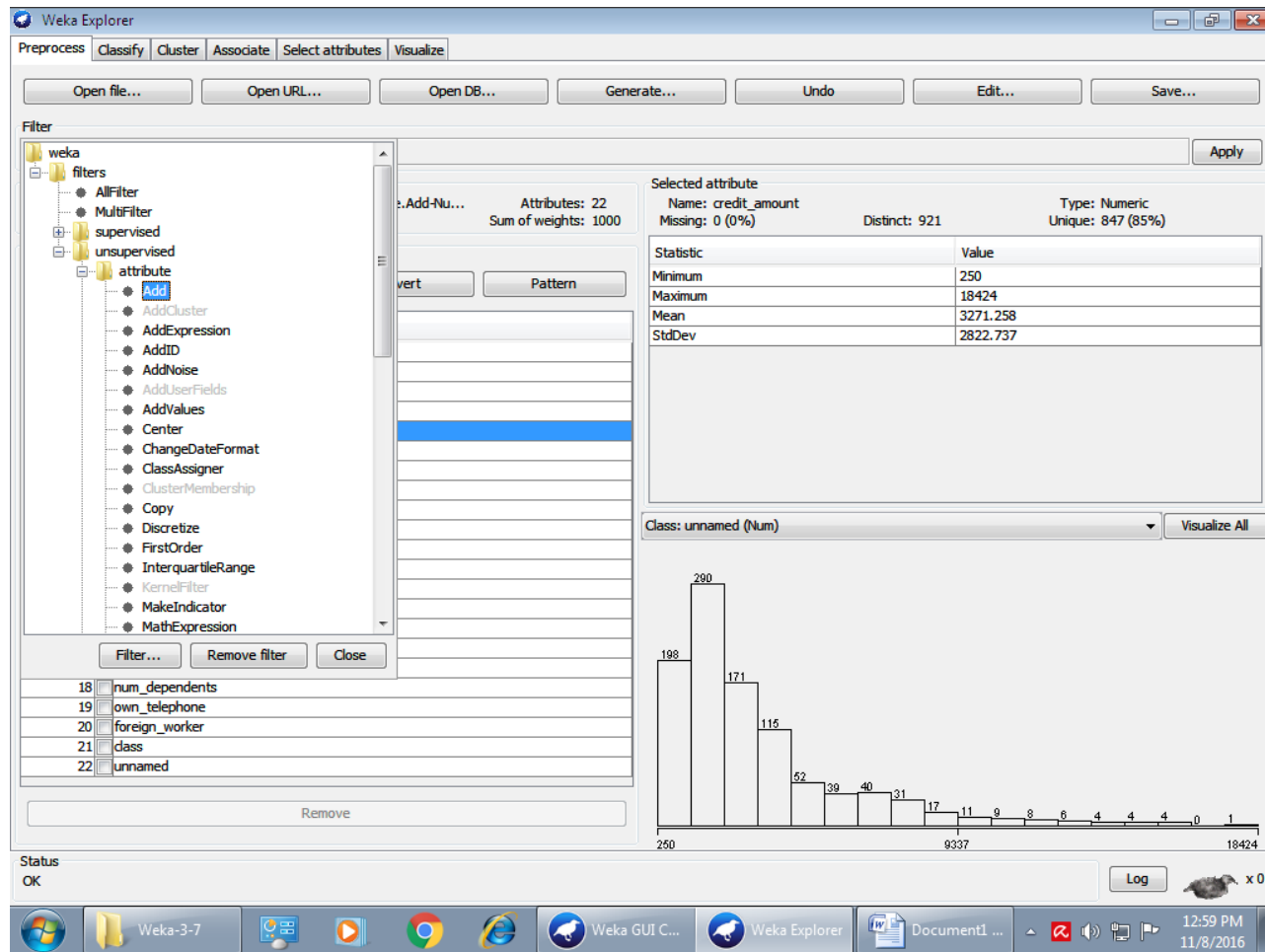
274 269 63 394

Page: 2 of 2 Words: 0

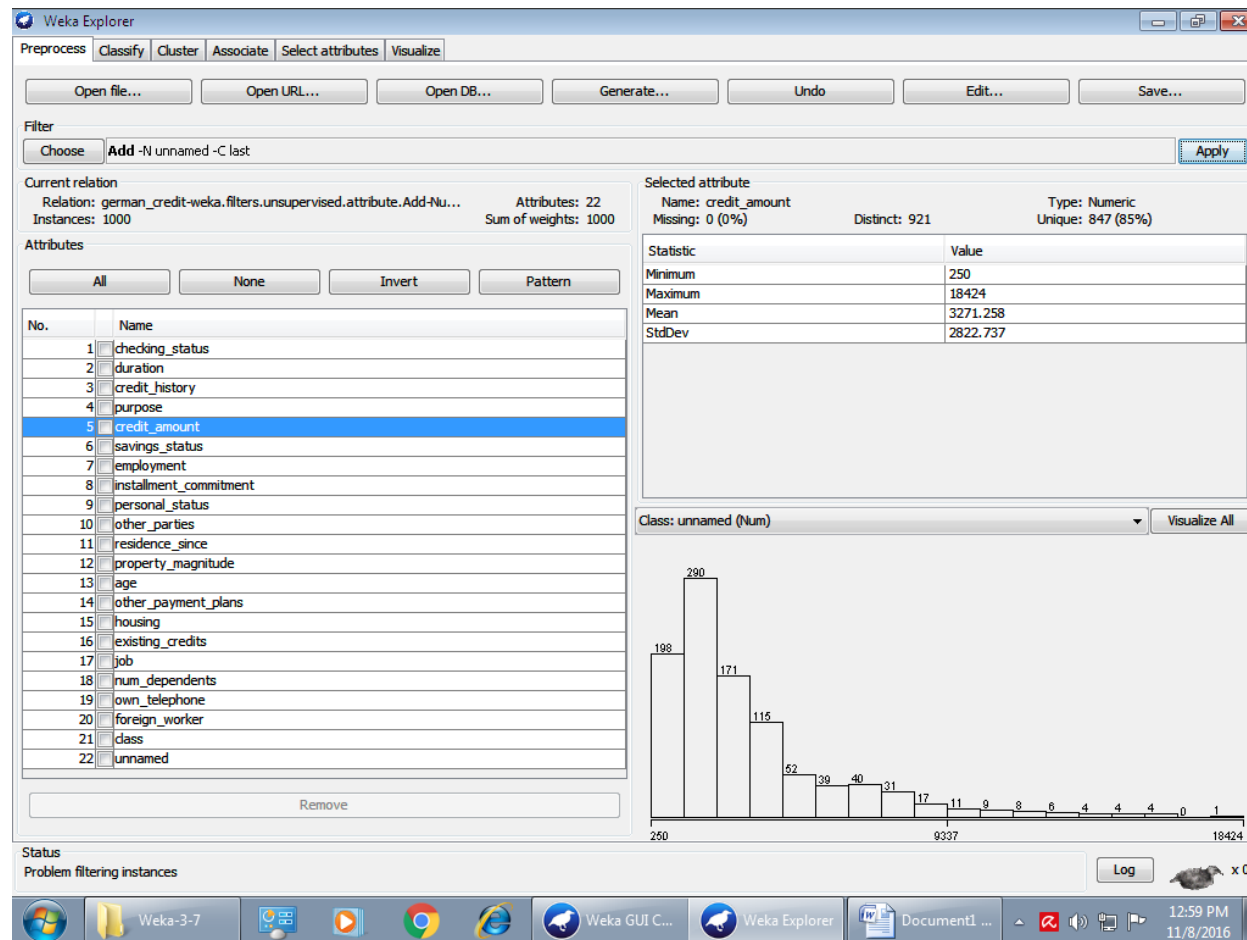
Page: 3 of 3 Words: 0

Weka-3-7 Weka GUI C... Weka Explorer Document1 ... 12:55 PM 11/8/2016

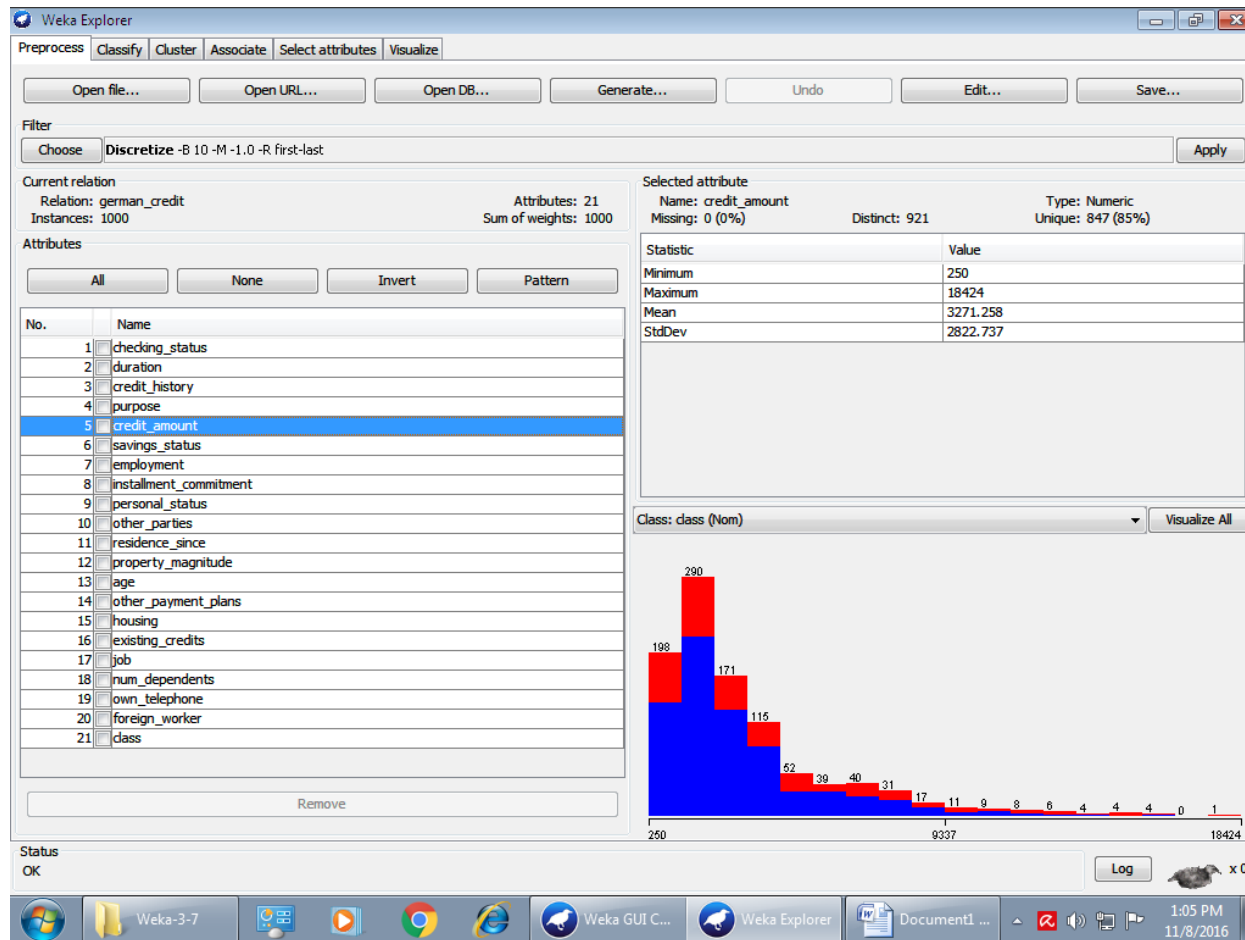
Before Add



After Add



Before Discretize



After Discretize

Weka Explorer

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

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

Filter: Choose **Discretize -B 10 -M -1.0 -R first-last** Apply

Current relation
Relation: german_credit-weka.filters.unsupervised.attribute.Discreti...
Instances: 1000
Attributes: 21
Sum of weights: 1000

Attributes: All None Invert Pattern

No.	Name
1	<input checked="" type="checkbox"/> checking_status
2	<input type="checkbox"/> duration
3	<input type="checkbox"/> credit_history
4	<input type="checkbox"/> purpose
5	<input type="checkbox"/> credit_amount
6	<input type="checkbox"/> savings_status
7	<input type="checkbox"/> employment
8	<input type="checkbox"/> installment_commitment
9	<input type="checkbox"/> personal_status
10	<input type="checkbox"/> other_parties
11	<input type="checkbox"/> residence_since
12	<input type="checkbox"/> property_magnitude
13	<input type="checkbox"/> age
14	<input type="checkbox"/> other_payment_plans
15	<input type="checkbox"/> housing
16	<input type="checkbox"/> existing_credits
17	<input type="checkbox"/> job
18	<input type="checkbox"/> num_dependents
19	<input type="checkbox"/> own_telephone
20	<input type="checkbox"/> foreign_worker
21	<input type="checkbox"/> class

Remove

Selected attribute
Name: checking_status
Missing: 0 (0%)
Distinct: 4
Type: Nominal
Unique: 0 (0%)

No.	Label	Count	Weight
1	<0	274	274.0
2	0<=X<200	269	269.0
3	>=200	63	63.0
4	no checking	394	394.0

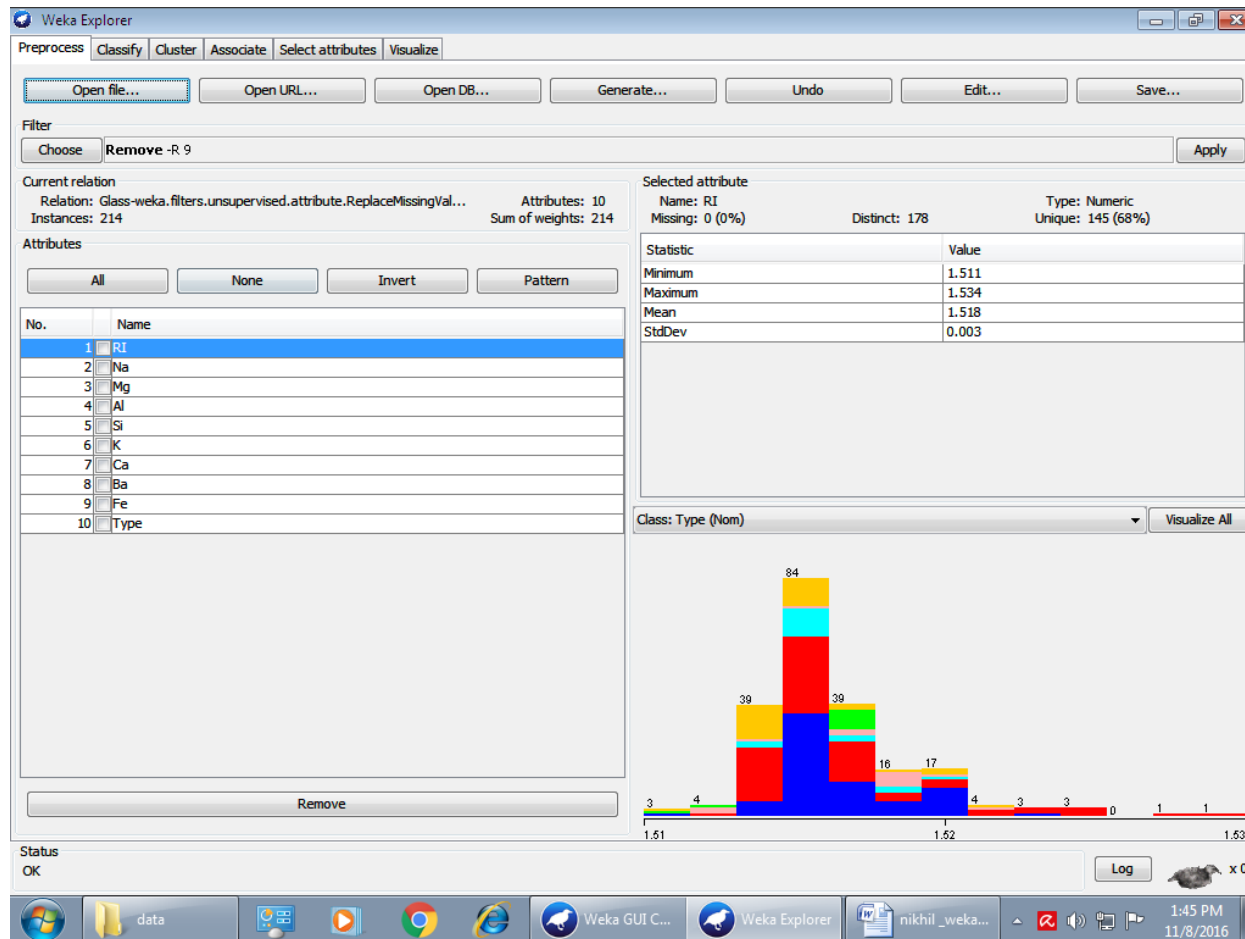
Class: class (Nom) Visualize All

Status: OK

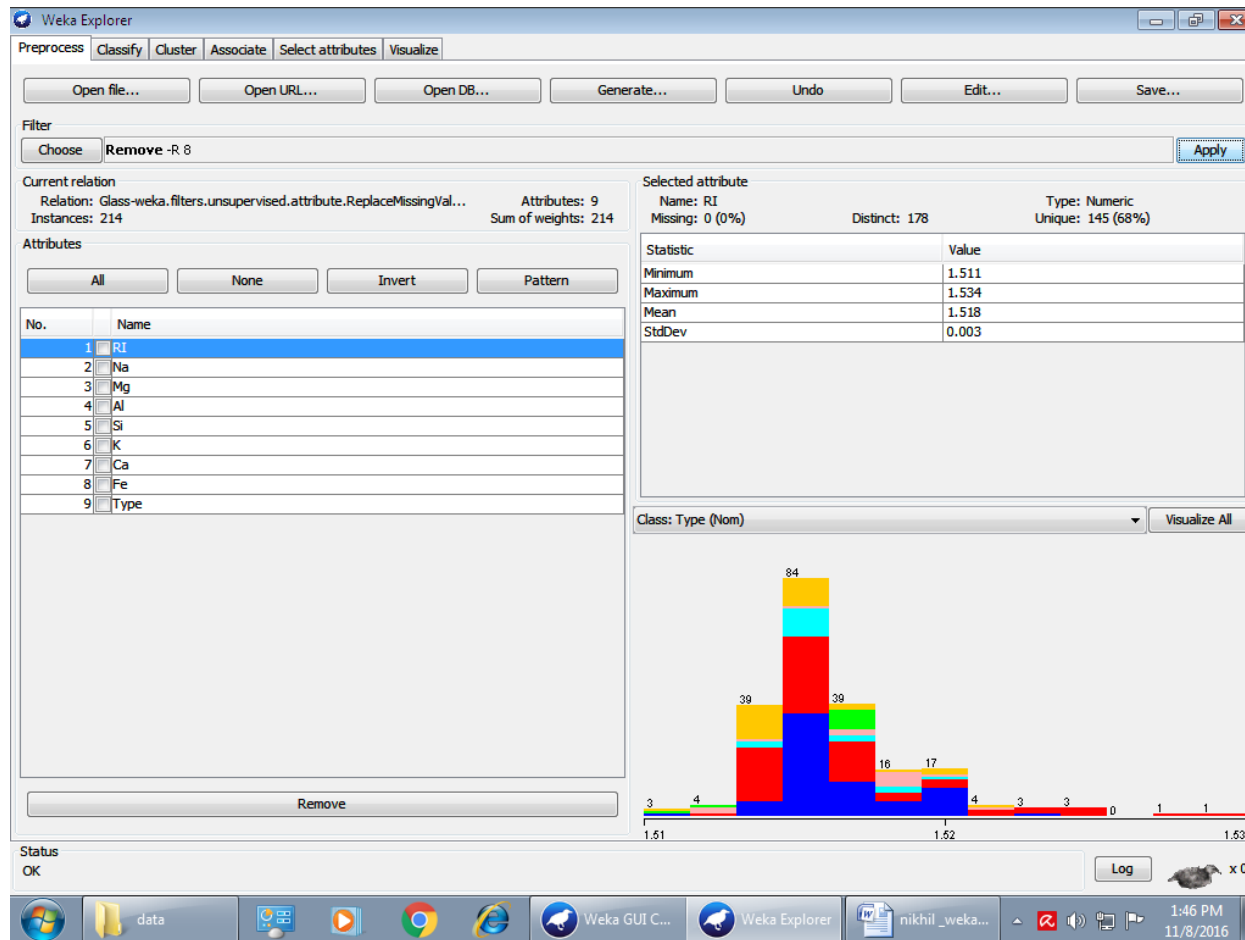
Log x 0

Weka-3-7 Weka GUI C... Weka Explorer Document1 ... 1:05 PM 11/8/2016

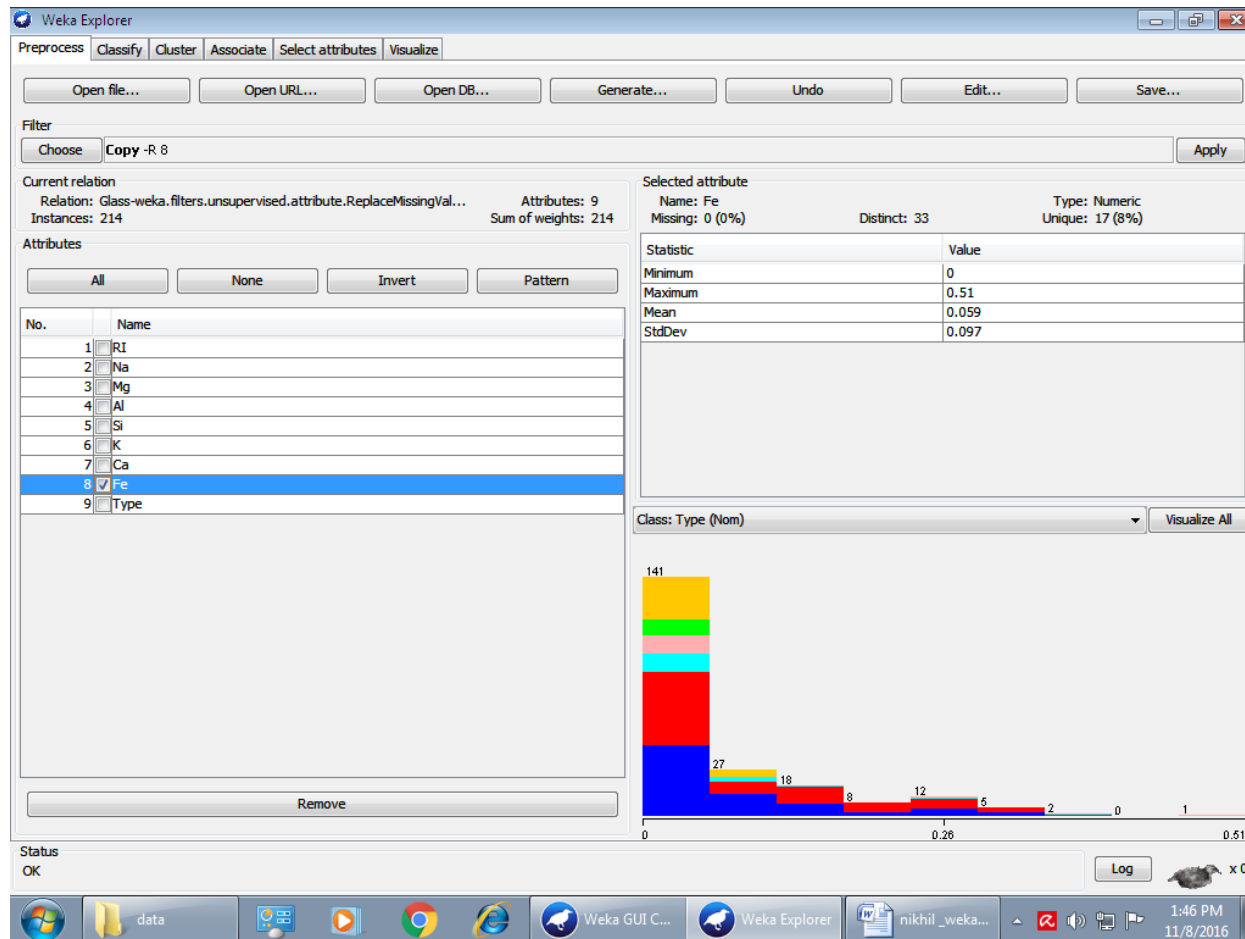
Before Remove



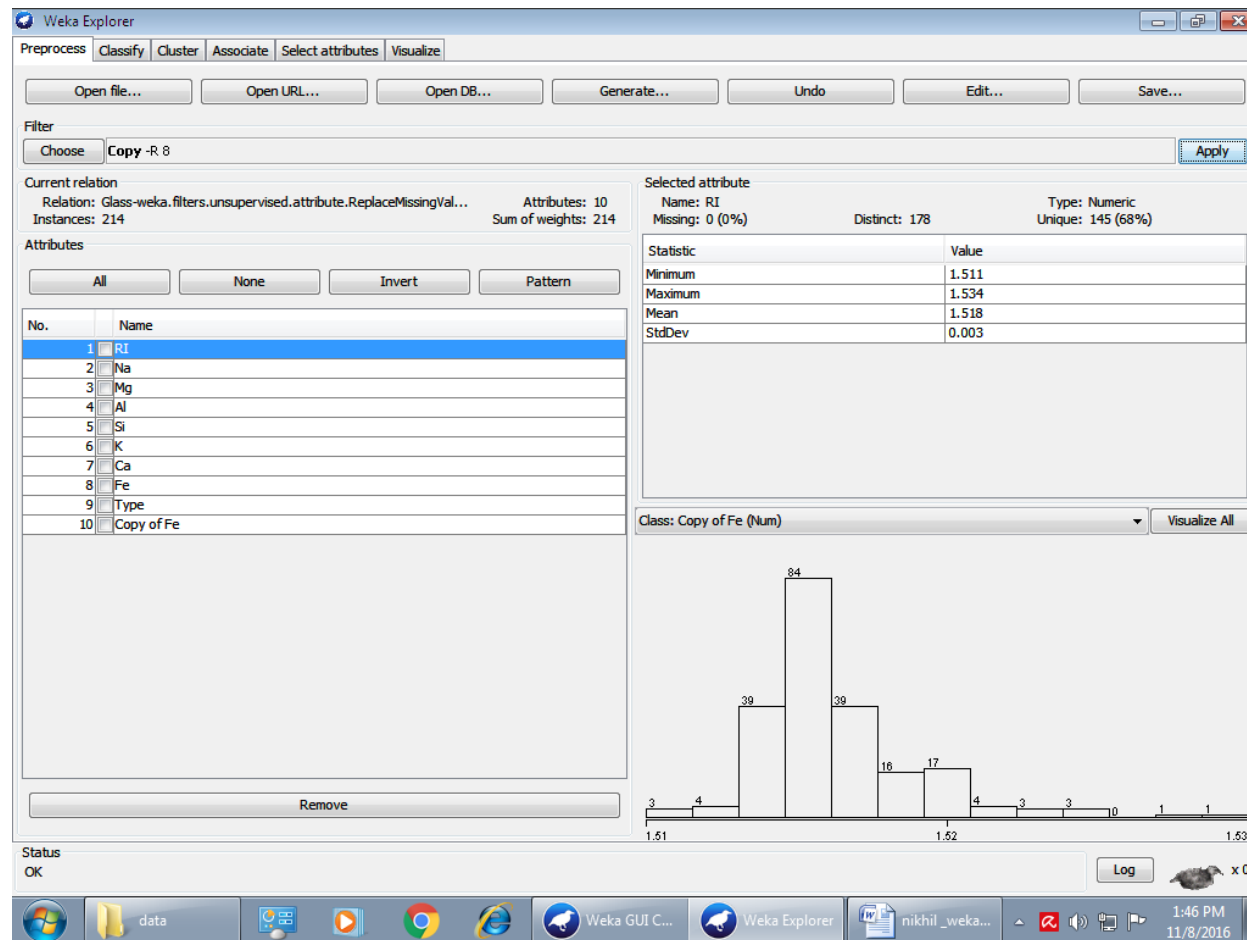
After Remove



Before Copy



After Copy



Before Normalize

Weka Explorer

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 Apply

Current relation
Relation: Glass-weka.filters.unsupervised.attribute.ReplaceMissingVal...
Instances: 214
Attributes: 10
Sum of weights: 214

Attributes
All None Invert Pattern

No.	Name
1	RI
2	Na
3	Mg
4	Al
5	Si
6	K
7	Ca
8	Ba
9	Fe
10	Type

Remove

Selected attribute
Name: RI
Missing: 0 (0%)
Distinct: 178
Type: Numeric
Unique: 145 (68%)

Statistic	Value
Minimum	1.511
Maximum	1.534
Mean	1.518
StdDev	0.003

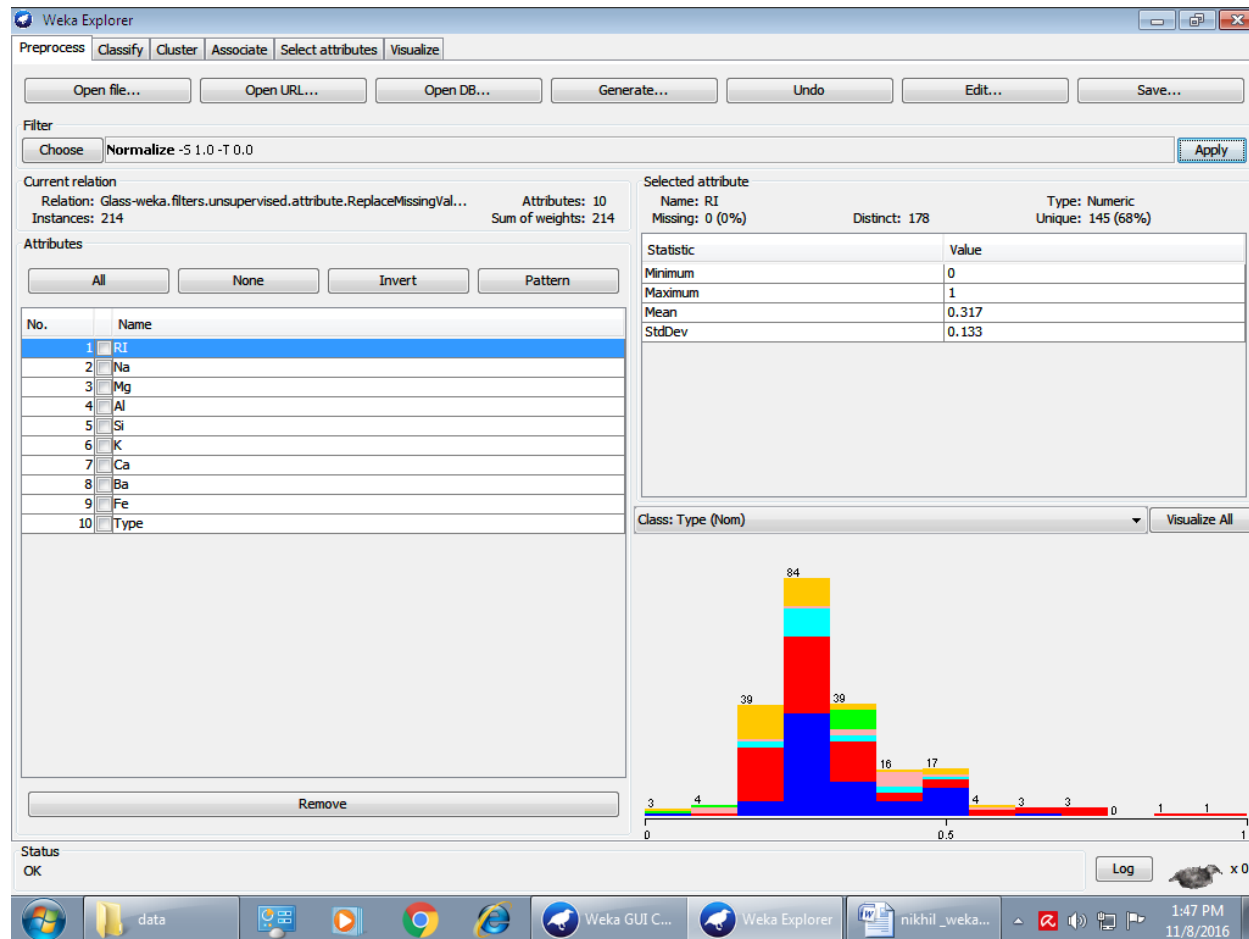
Class: Type (Nom) Visualize All

Status: OK

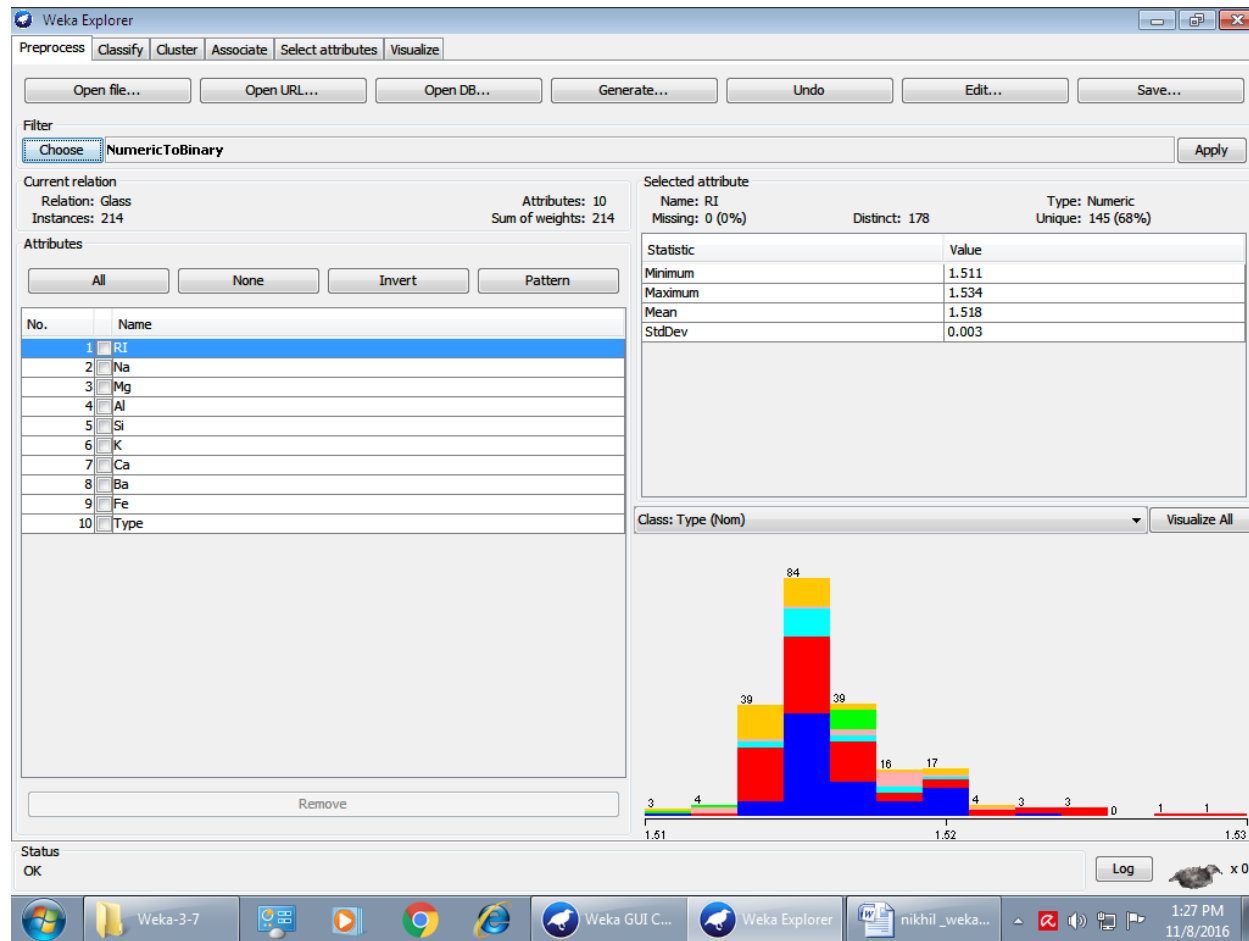
Log x 0

Windows taskbar: data, Weka GUI C..., Weka Explorer, nikhil_weka..., 1:47 PM 11/8/2016

After Normalize



Before Numeric To Binary



After Numeric To binary

Weka Explorer

Preprocess Classify Cluster Associate Select attributes Visualize

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

Filter
Choose **NumericToBinary** Apply

Current relation
Relation: Glass-weka.filters.unsupervised.attribute.NumericToBinary
Instances: 214
Attributes: 10
Sum of weights: 214

Attributes
All None Invert Pattern

No.	Name
1	RI_binarized
2	Na_binarized
3	Mg_binarized
4	Al_binarized
5	Si_binarized
6	K_binarized
7	Ca_binarized
8	Ba_binarized
9	Fe_binarized
10	Type

Remove

Selected attribute
Name: RI_binarized
Missing: 0 (0%)
Distinct: 1
Type: Nominal
Unique: 0 (0%)

No.	Label	Count	Weight
1	0	0	0.0
2	1	214	214.0

Class: Type (Nom) Visualize All

214

0

Status
OK

Log x 0

Weka-3-7 Weka GUI C... Weka Explorer nikhil_weka...

1:27 PM
11/8/2016

Before Nominal to binary

Weka Explorer

Preprocess **Classify** Cluster Associate Select attributes Visualize

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

Filter: Choose **NominalToBinary -R first-last** Apply

Current relation
Relation: iris
Instances: 150
Attributes: 5
Sum of weights: 150

Attributes: All None Invert Pattern

No.	Name
1	sepalength
2	sepalwidth
3	petalength
4	petalwidth
5	class

Selected attribute
Name: class
Missing: 0 (0%)
Distinct: 3
Type: Nominal
Unique: 0 (0%)

No.	Label	Count	Weight
1	Iris-setosa	50	50.0
2	Iris-versicolor	50	50.0
3	Iris-virginica	50	50.0

Class: class (Nom) Visualize All

50 50 50

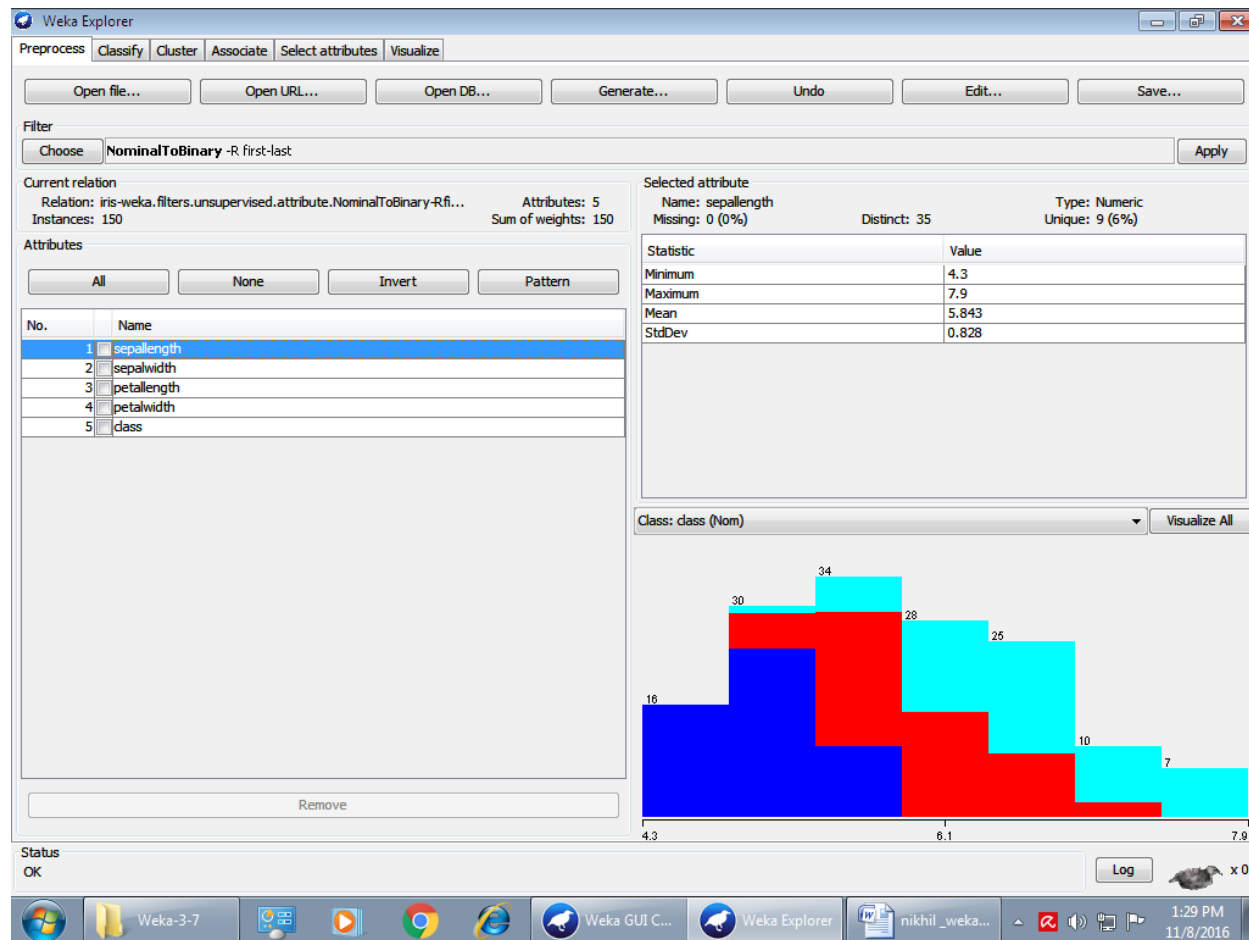
Status: OK

Log x 0

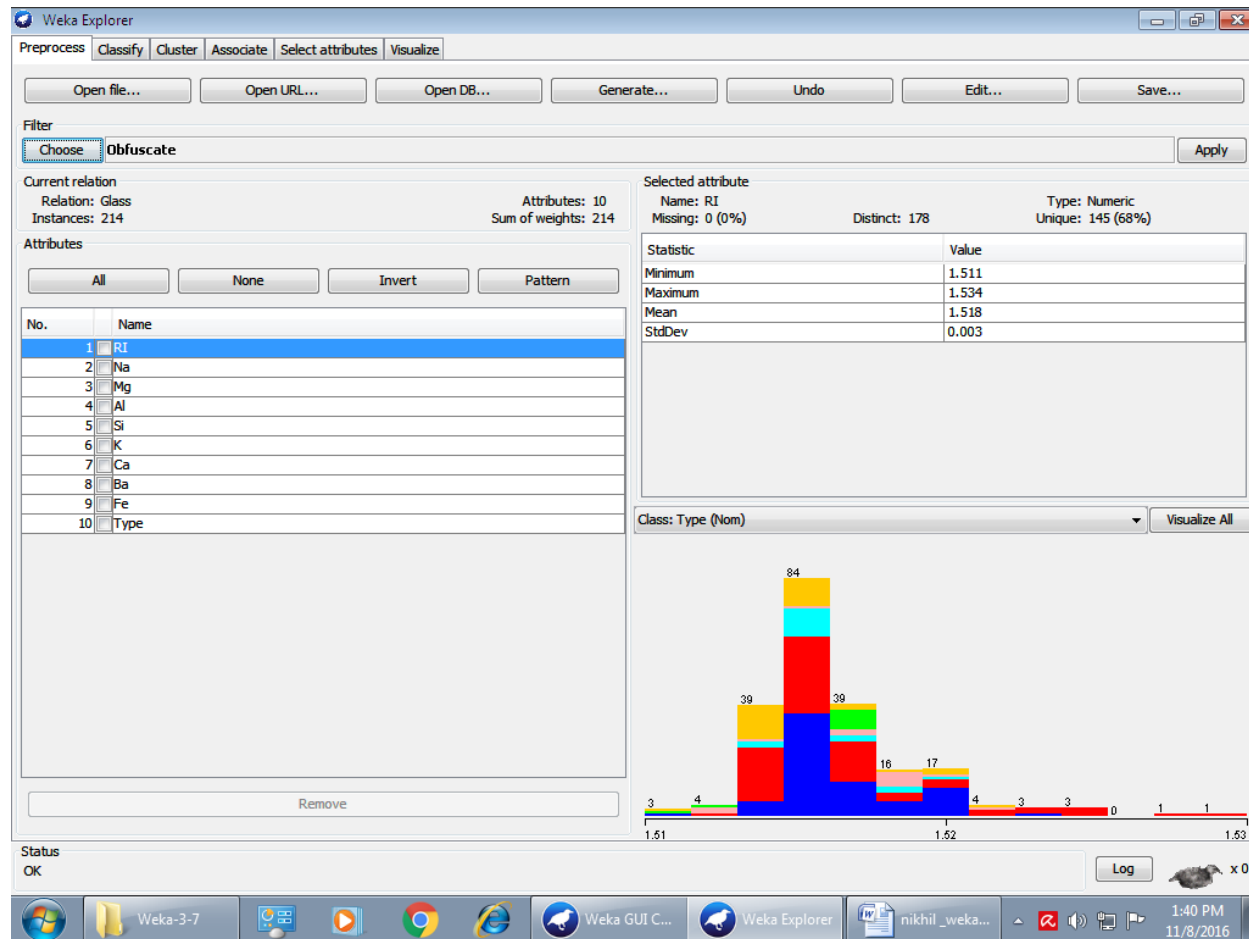
Weka-3-7 Weka GUI C... Weka Explorer nikhil_weka...

1:29 PM 11/8/2016

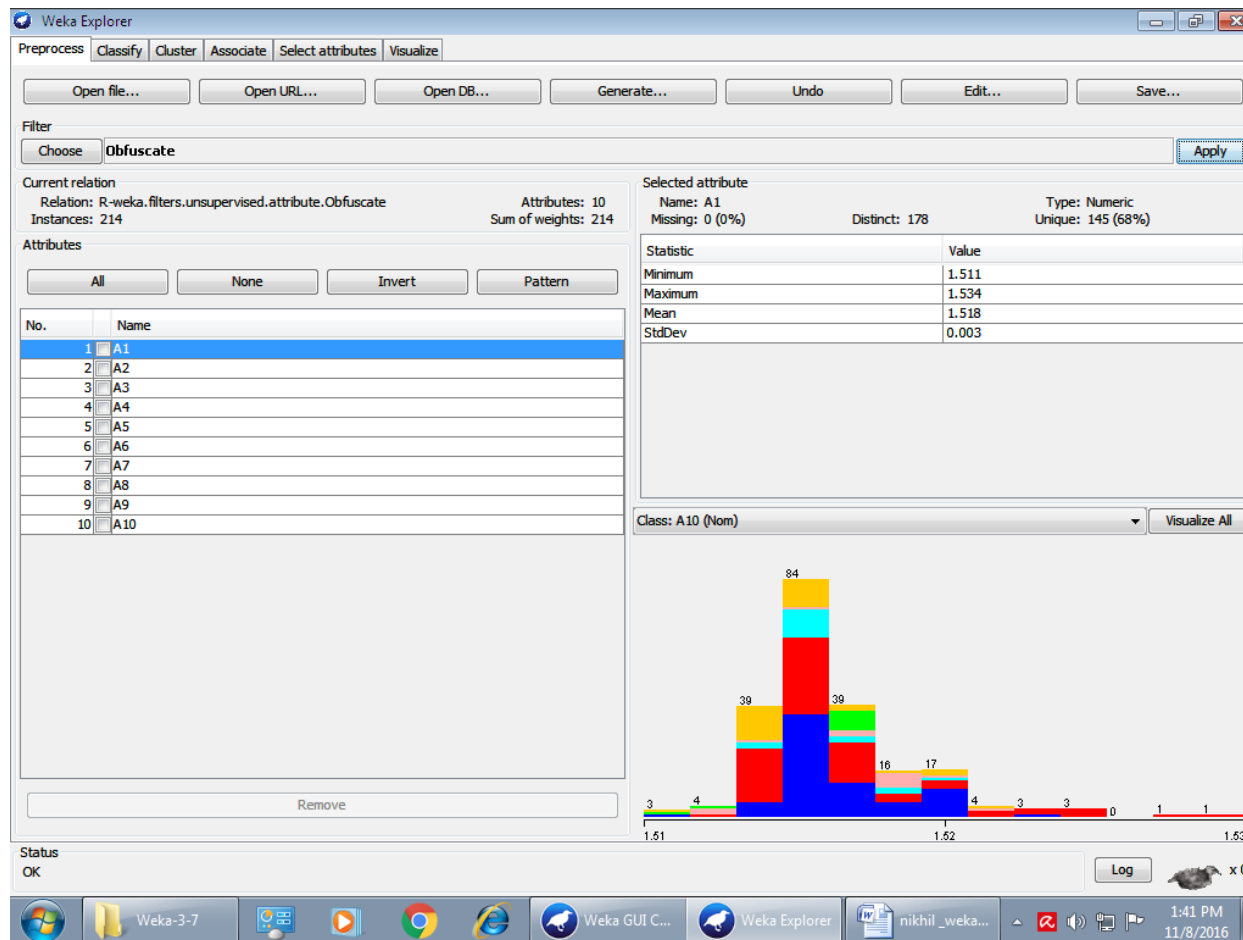
After Nominal to binary



Before obsfuscutte



After Obsfuscutte



Before REplacemissing values

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: Glass
Instances: 214
Attributes: 10
Sum of weights: 214

Attributes: All None Invert Pattern

No.	Name
1	RI
2	Na
3	Mg
4	Al
5	Si
6	K
7	Ca
8	Ba
9	Fe
10	Type

Remove

Selected attribute
Name: Fe
Missing: 6 (3%)
Distinct: 32
Type: Numeric
Unique: 17 (8%)

Statistic	Value
Minimum	0
Maximum	0.51
Mean	0.059
StdDev	0.098

Class: Type (Nom) Visualize All

141 21 18 8 12 5 2 0 1

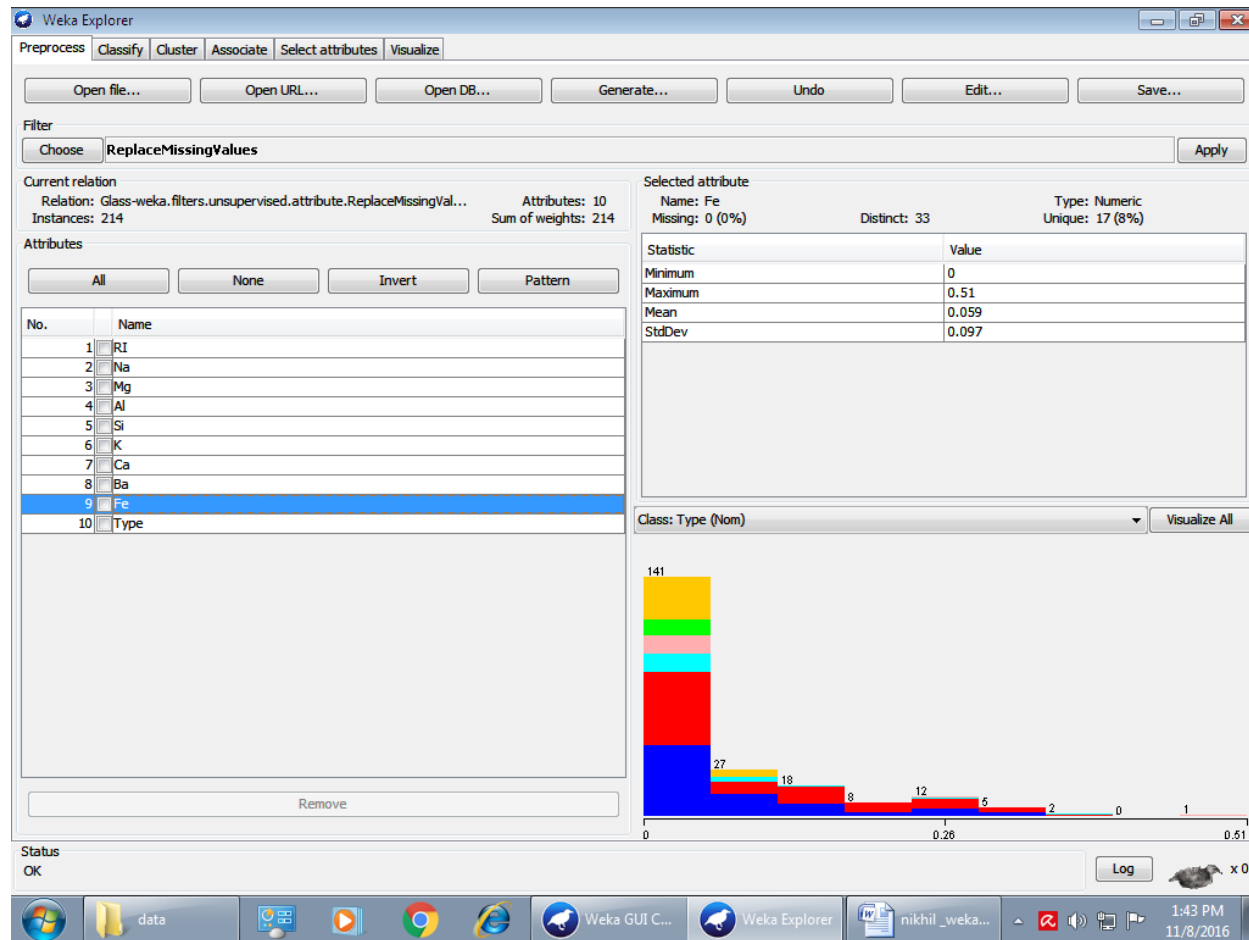
0 0.28 0.51

Status: OK

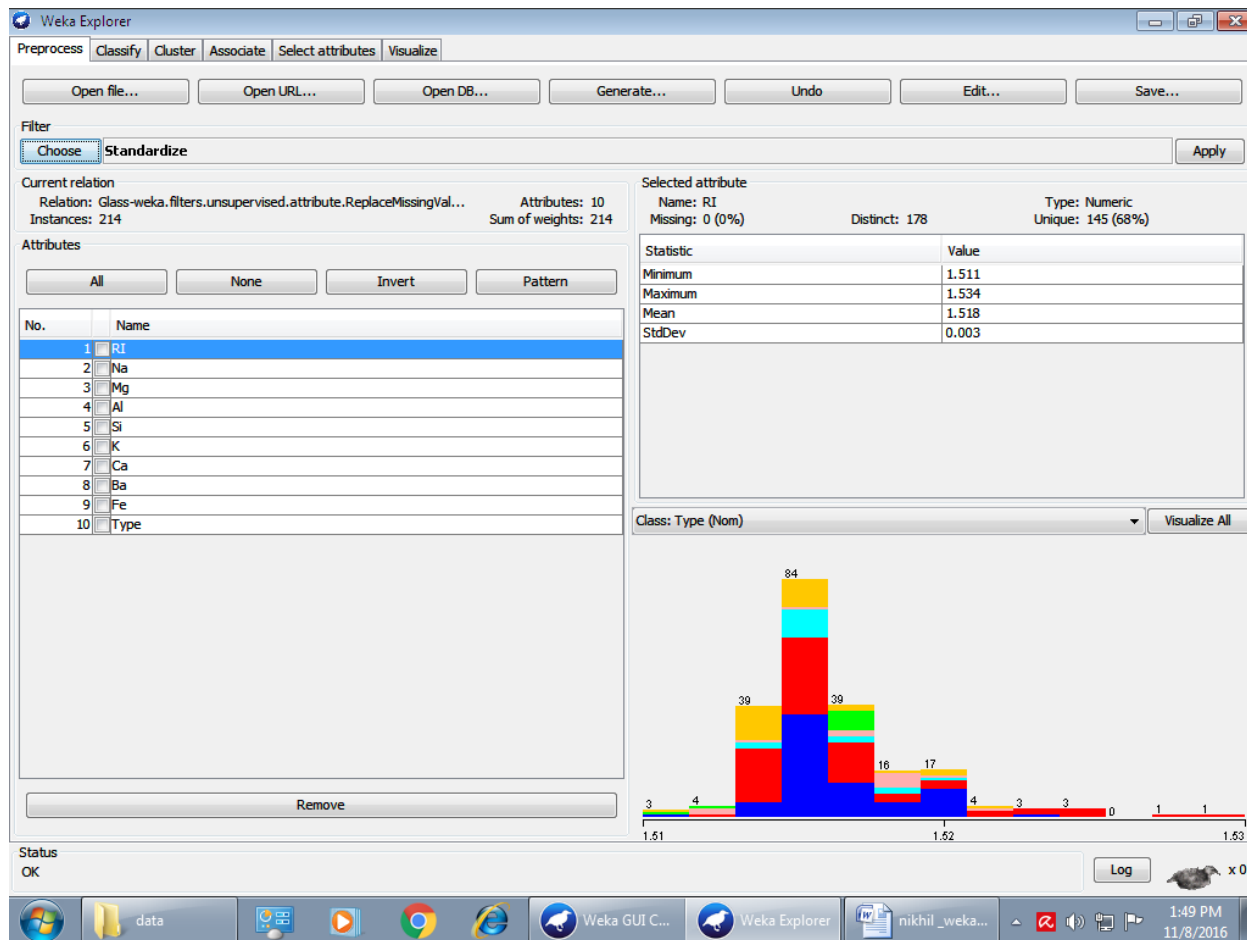
Log x 0

Windows taskbar: data, Weka GUI C..., Weka Explorer, nikhil_weka..., 1:43 PM 11/8/2016

After replacing missing values



Before Standardize



After Standardize

