



## UNIVERSITY

(Estd. u/s 3 of UGC Act 1956)

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19MID0031

CSI3010 - DATA WAREHOUSING AND DATA MINING

**FACULTY: CHELLATAMILAN T** 

PRE-PROCESSING TECHNIQUES USING WEKA- DISCRETIZATION

Real world databases are highly influenced to noise, missing and inconsistency due to their queue size so the data can be pre-processed to improve the quality of data and missing results and it also improves the efficiency.

- 1) Open Start -> Programs -> Accessories -> Notepad
- 2) Type the following training data set with the help of Notepad for Weather Table.
- 3)Apply the Discretization
- 4) Compare the J48 Classification accuracy before and after discretization
- @relation weather
- @attribute outlook {sunny,rainy,overcast}
- @attribute temparature numeric
- @attribute humidity numeric
- @attribute windy {true,false}
- @attribute play {yes,no}
- @data

sunny,85.0,85.0,false,no

overcast,80.0,90.0,true,no

sunny,83.0,86.0,false,yes

rainy,70.0,86.0,false,yes

rainy,68.0,80.0,false,yes

rainy,65.0,70.0,true,no

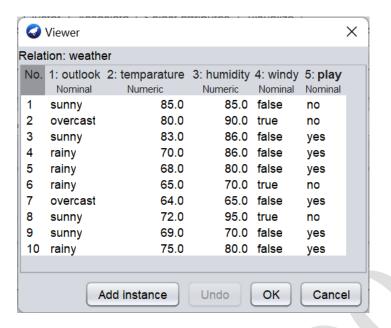
overcast,64.0,65.0,false,yes

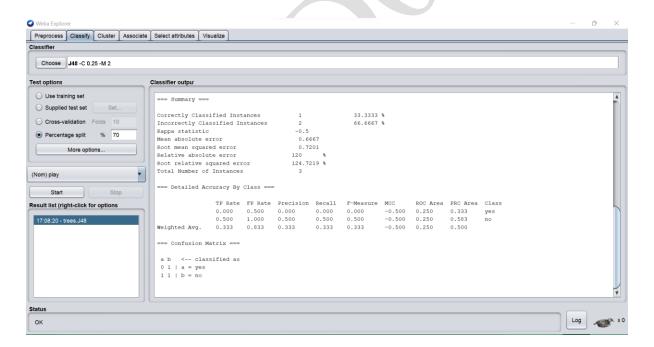
sunny,72.0,95.0,true,no

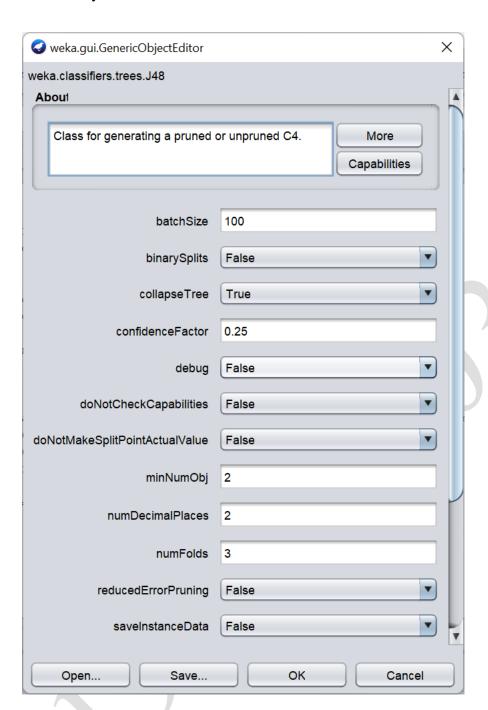
sunny,69.0,70.0,false,yes

rainy,75.0,80.0,false,yes

## **BEFORE DISCRETIZATION**





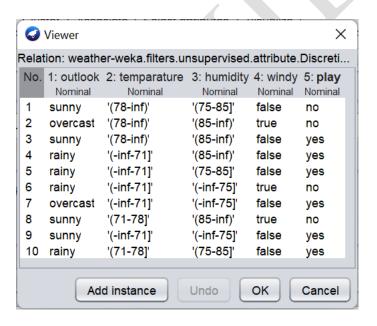


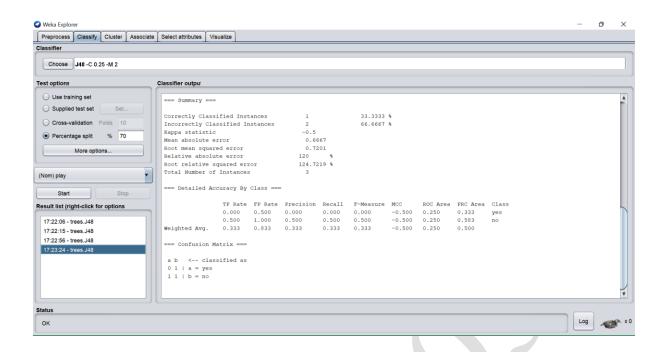
## AFTER DISCRETIZATION



Name Missing	temparature 0 (0%)	Distinct: 3	Type: Nominal Unique: 0 (0%)	
No.	Label	Count	Weight	
	1 '(-inf-71]'	5	5.0	
	2 '(71-78]'	2	2.0	
	3 '(78-inf)'	3	3.0	

Name: humidity Missing: 0 (0%)		Distinct: 3	Type: Nominal Unique: 0 (0%)	
No.	Label	Count	Weight	
1	'(-inf-75]'	3	3.0	
2	'(75-85]'	3	3.0	
3	'(85-inf)'	4	4.0	
3	'(85-inf)'	4	4.0	





## MANUALLY CREATED DATASET FILE: