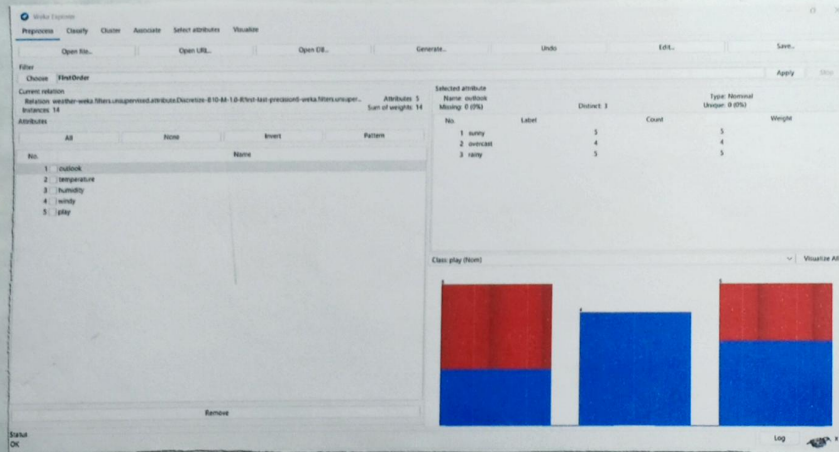


Practical No. 04

Aim:

Perform pre processing on dataset weather.arff (Specify the name of dataset chosen by each individual, instead of weather) includes creating an arff file and reading it into weka using the WEKA explorer.



Apply the 'FirstOrder' Filter

Practical No. 04

Aim:

Perform pre-processing on dataset weather.arff (Specify the name of dataset chosen by each individual, instead of weather) includes creating an arff file and reading it into weka using the WEKA explorer.

Theory:

A. Convert CSV to ARFF using WEKA 3.6

- Download WEKA 3.6
- Install WEKA 3.6
- Run WEKA 3.6
- Click tools → Arff viewer
- File → Open
- Open the CSV files (change files of type to *.csv)
- Then, save as the file.
- In the name delete .csv, change to .arff, then save it.

B. Loading data.

- The first four buttons at the top of the pre-process section enables you to load data into WEKA.
- Open File: Brings up a dialog box allowing you to browse for the file on the local file system.
- Open url: Asks for a Uniform Resource Locator address where data is located.
- Open DB: reads from a database.
- Generate: Enables you to generate artificial data from a variety of generators.
- Open File: button, you can read files in a variety of formats: WEKA's ARFF and CSV.



Applying the 'Remove' Filter

C. Pre-processing:

1. All. All boxes are ticked.
2. None. All boxes are cleared. (unticked)
3. Inverted. Boxes that are ticked become unticked and vice-versa.
4. Pattern. Enables the users to select attributes based on a PERL 5 regular expression.
eg., *id
- Selects all attributes whose name end with id.

D. Working with Filters:

- The preprocess section allows filters to be defined that transform data in various ways. The Filterbox is used to setup the filters that are required. At the left of the Filterbox is a choose button. By clicking this button it is possible to select one of the filters in WEKA. Once a filter has been selected, its name and options are shown in the field next to the choose button.

E. Steps for run preprocessing tab in WEKA.

1. Open WEKA tool
2. Click on WEKA explorer
3. Click on Preprocessing tab button.
4. Click on open file button
5. Choose WEKA folder in C drive
6. Select and Click on data option button.
7. Choose labor data set and open file.
8. Choose filter button and select the Unsupervised-Discretize option and apply Dataset labor.arff.

2. Pre-Processing

1. All filters are applied

2. All filters are applied (continued)

3. Selected filters are then applied to the dataset

4. Selected filters are then applied to the dataset (continued)

5. All filters are applied

6. All filters are applied (continued)

7. All filters are applied

8. All filters are applied (continued)

9. All filters are applied (continued)

10. All filters are applied (continued)

11. All filters are applied (continued)

12. All filters are applied (continued)

13. All filters are applied (continued)

14. All filters are applied (continued)

15. All filters are applied (continued)

16. All filters are applied (continued)

17. All filters are applied (continued)

18. All filters are applied (continued)

19. All filters are applied (continued)

20. All filters are applied (continued)

21. All filters are applied (continued)

Conclusion:

Through WEKA tools we successfully performed pre-processing operation (Discretization Filters, Resample Filter, etc.) on dataset.

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