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UID: 2019130017

TE Computer

Experiment 9

Objective:

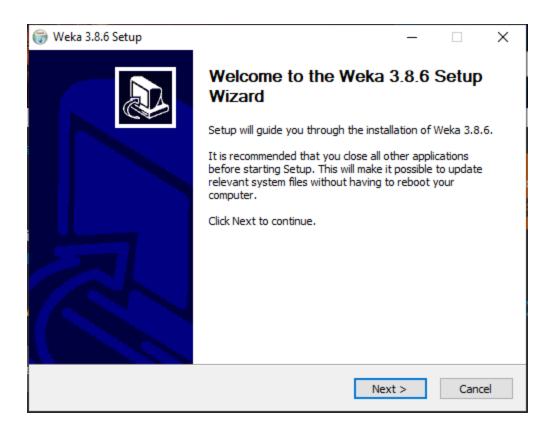
Apply Apriori Algorithm to given dataset Association Rule Mining with WEKA

Procedure:

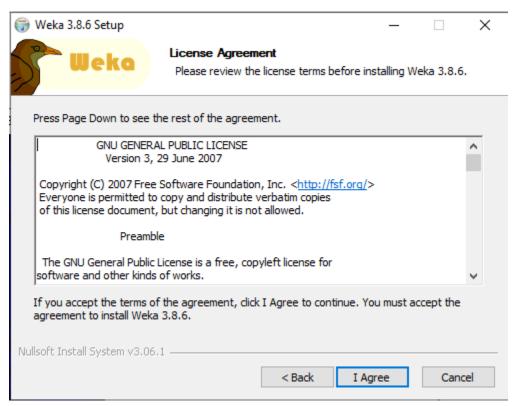
 $1. Download \ the \ software \ as \ your \ requirements \ from \ the \ below \ given \ link.$

http://www.cs.waikato.ac.nz/ml/weka/downloading.html

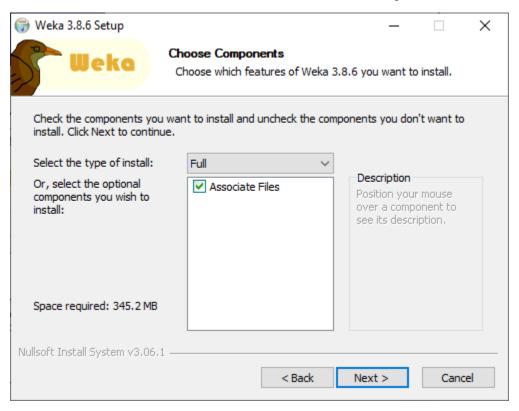
- 2. The Java is mandatory for installation of WEKA so if you have already Java on your machine then download only WEKA else download the software with JVM.
- 3. Then open the file location and double click on the file
- 4. Click Next



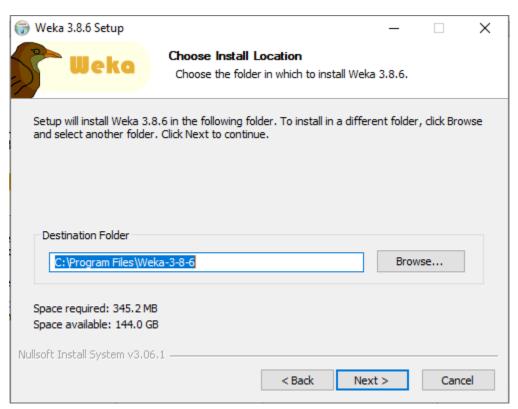
5. Click I Agree.



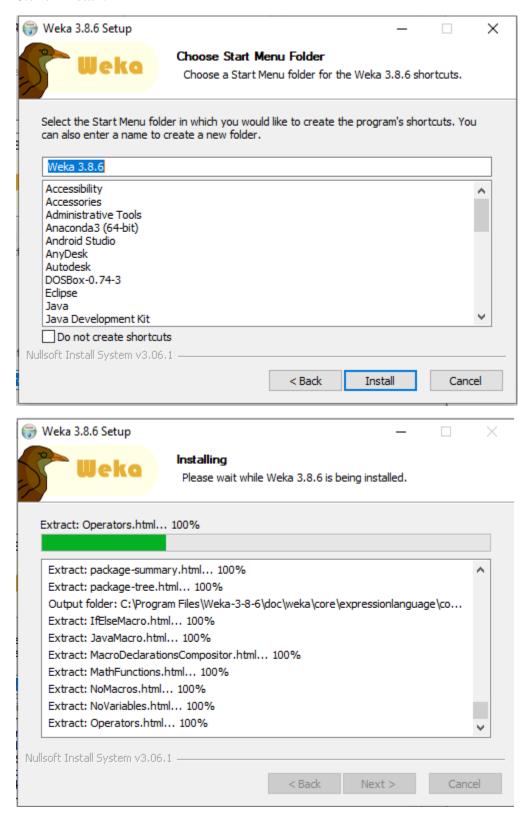
6.select Full and Associate files are the recommended settings and click next.



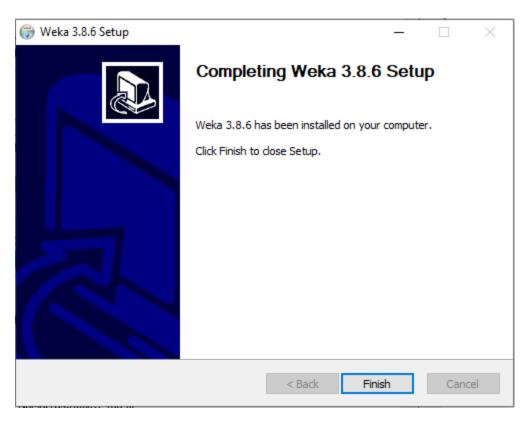
7.Set the installation location and click next



8.click Install.

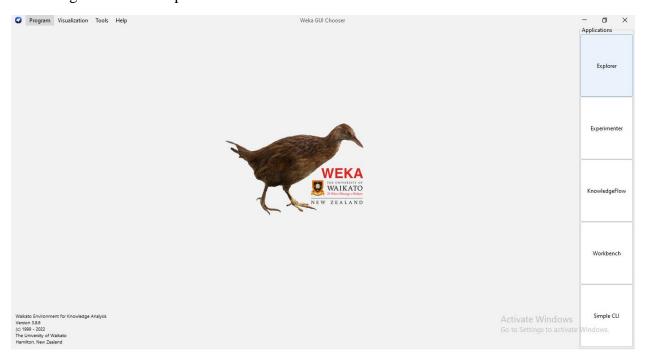


9.click finish and it will complete the installation



10. This is the GUI is started after the installing the weka. You have 4 options Explorer, Experimenter,

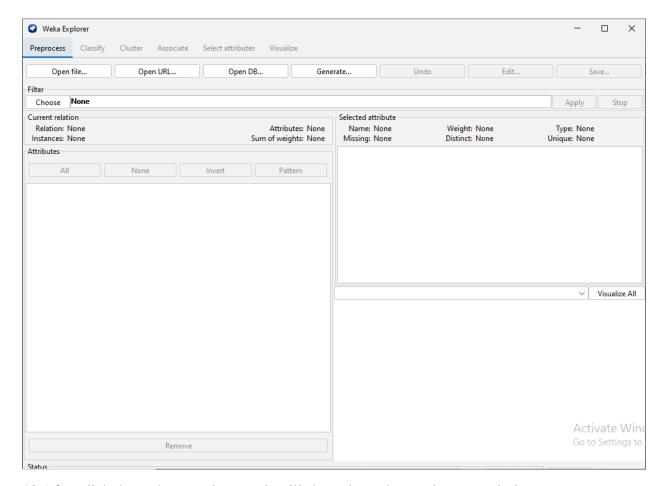
KnowledgeFlow and Simple CLI.



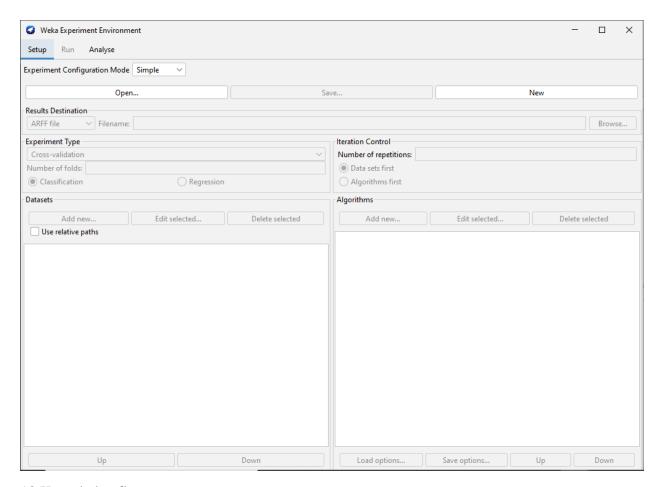
1. Explorer An environment for exploring data with WEKA (the rest of this Documentation

deals with this application in more detail).

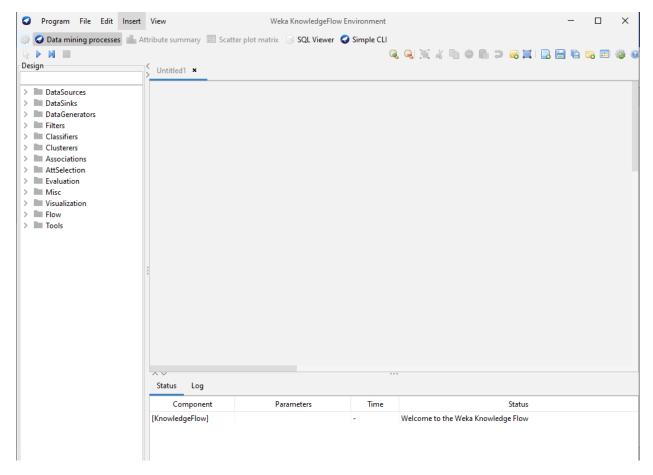
- 2. Experimenter An environment for performing experiments and conducting statistical tests between learning schemes.
- 3. Knowledge Flow This environment supports essentially the same functions as the Explorer but with a drag-and-drop interface. One advantage is that it supports incremental learning.
- 4. SimpleCLI Provides a simple command-line interface that allows direct execution of WEKA commands for operating systems that do not provide their own command line interface.
- 11. After click the weka explorer it will show the weka explorer window in that following tabs are avaliable
- 1. Preprocess. Choose and modify the data being acted on.
- 2. Classify. Train & test learning schemes that classify or perform regression
- 3. Cluster. Learn clusters for the data.
- 4. Associate. Learn association rules for the data.
- 5. Select attributes. Select the most relevant attributes in the data.
- 6. Visualize. View an interactive 2D plot of the data.



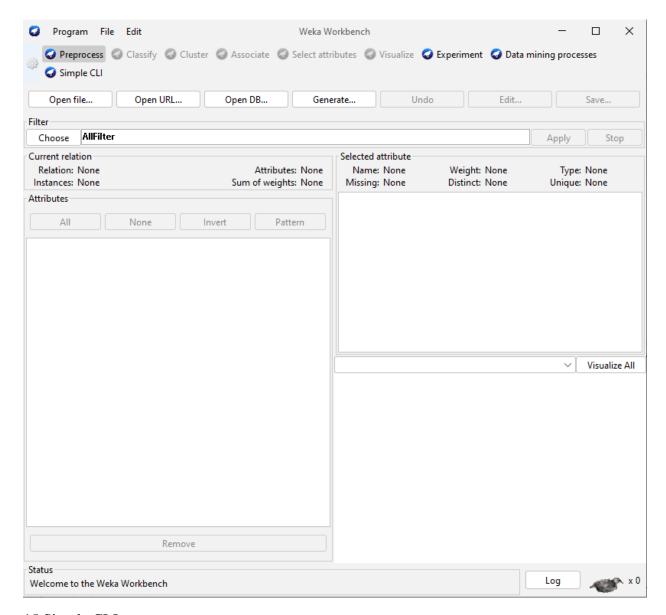
12. After click the weka experimenter it will show the weka eperimenter window



13.Knowledge flow



14. Weka workbench



15.Simple CLI

Commands:

The following commands are available in the Simple CLI:

· Java <classname> [<args>]

Invokes a java class with the given arguments (if any).

· Break

Stops the current thread, e.g., a running classifier, in a friendly manner kill stops the current thread in an unfriendly fashion.

· Cls

Clears the output area

· Capabilities <classname> [<args>]

Lists the capabilities of the specified class, e.g., for a classifier with its.

· option:

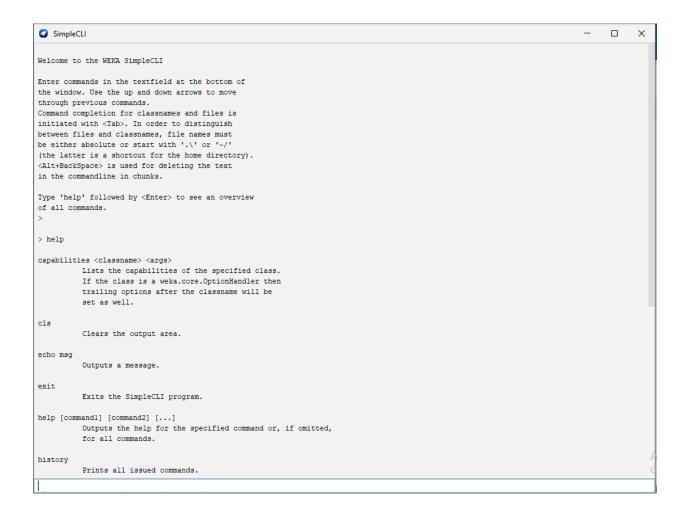
Capabilities weka.classifiers.meta.Bagging -W weka.classifiers.trees.Id3

· exit

Exits the Simple CLI

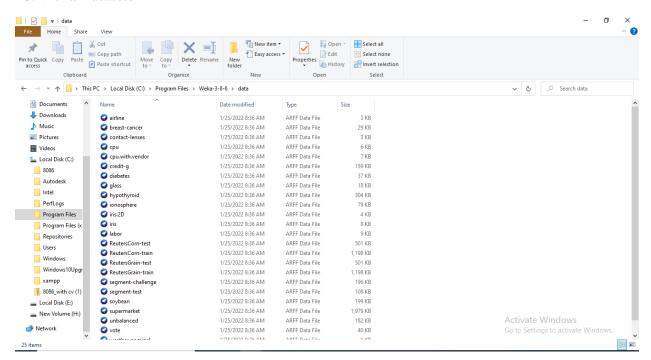
· help [<command>]

Provides an overview of the available commands if without a command name as argument, otherwise more help on the specified command

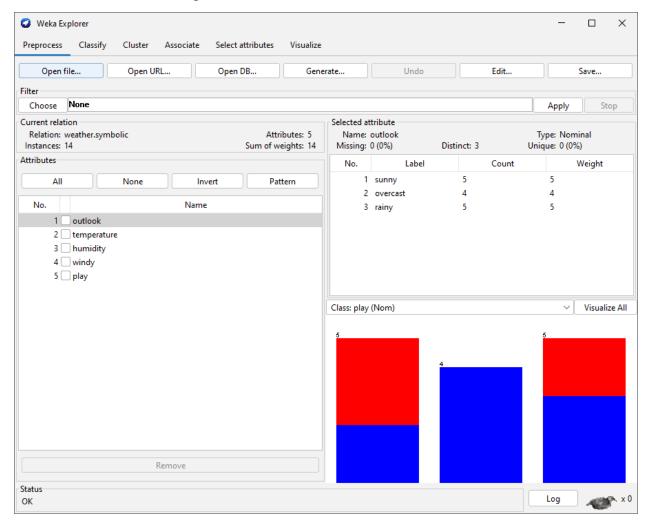


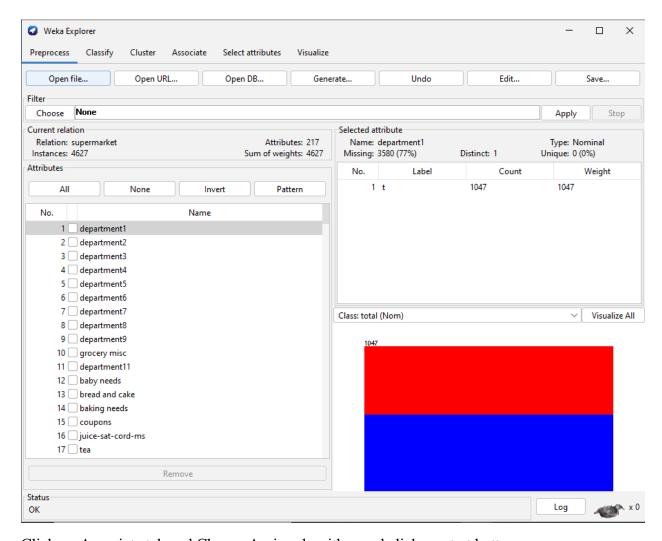
```
SimpleCLI
                                                                                                                                  ×
         Clears the output area.
echo msg
         Outputs a message.
         Exits the SimpleCLI program.
help [command1] [command2] [...]
         Outputs the help for the specified command or, if omitted,
         for all commands.
history
         Prints all issued commands.
java <classname> <args>
         Lists the capabilities of the specified class.
         If the class is a weka.core.OptionHandler then
         trailing options after the classname will be
         set as well.
kill.
         Kills the running job, if any.
script <script_file>
         Executes commands from a script file.
set [name=value]
         Sets a variable.
         If no key=value pair is given all current variables are listed.
unset name
         Removes a variable.
Notes:
- Variables can be used anywhere using '${<name>}' with '<name>'
being the name of the variable.
- Environment variables can be used with '${env.<name>}'.
 e.g., '${env.PATH}' to retrieve the PATH variable.
```

16. Weka Datasets



- 18. Explore the weka dataset
- 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 iris data set and open file.





Click on Associate tab and Choose Aprior algorithm and click on start button

