Practical No. 7

Roll No.: K041	Name: Anish Sudhan Nair
Class: B.Tech Cybersecurity	Batch: K2
Date of Practical: 05/03/2022	Date of Submission: 05/03/2022
Grade:	

Aim: To study Experimenter feature in WEKA tool

Prerequisite:

- Understanding of the basic data mining tasks

Outcome: After successful completion of this experiment students will be able to

- Understand and use the Experimenter feature in WEKA Tool.

Theory:

The Weka Experiment Environment enables the user to create, run, modify, and analyse experiments in a more convenient manner than is possible when processing the schemes individually. For example, the user can create an experiment that runs several schemes against a series of datasets and then analyze the results to determine if one of the schemes is (statistically) better than the other schemes. The Experimenter comes in two flavours, either with a simple interface that provides most of the functionality one needs for experiments, or with an interface with full access to the Experimenter's capabilities. You can choose between those two with the Experiment Configuration Mode radio buttons:

• Simple

• Advanced

Both setups allow you to setup standard experiments that are run locally on a single machine, or remote experiments, which are distributed between several hosts. The distribution of experiments cuts down the time the experiments will take until completion, but on the other hand the setup takes more time.

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(TO BE COMPLETED BY STUDENTS)

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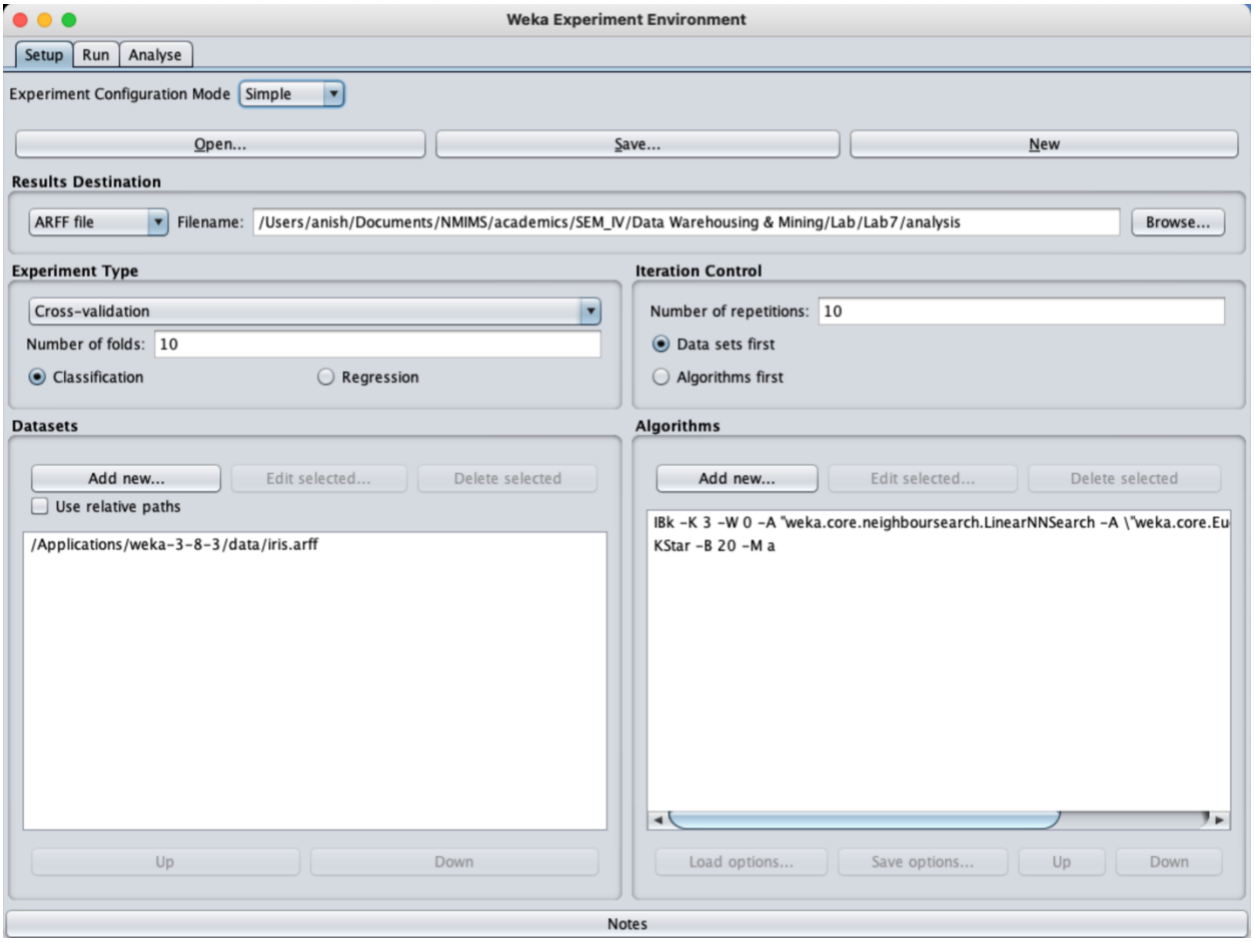
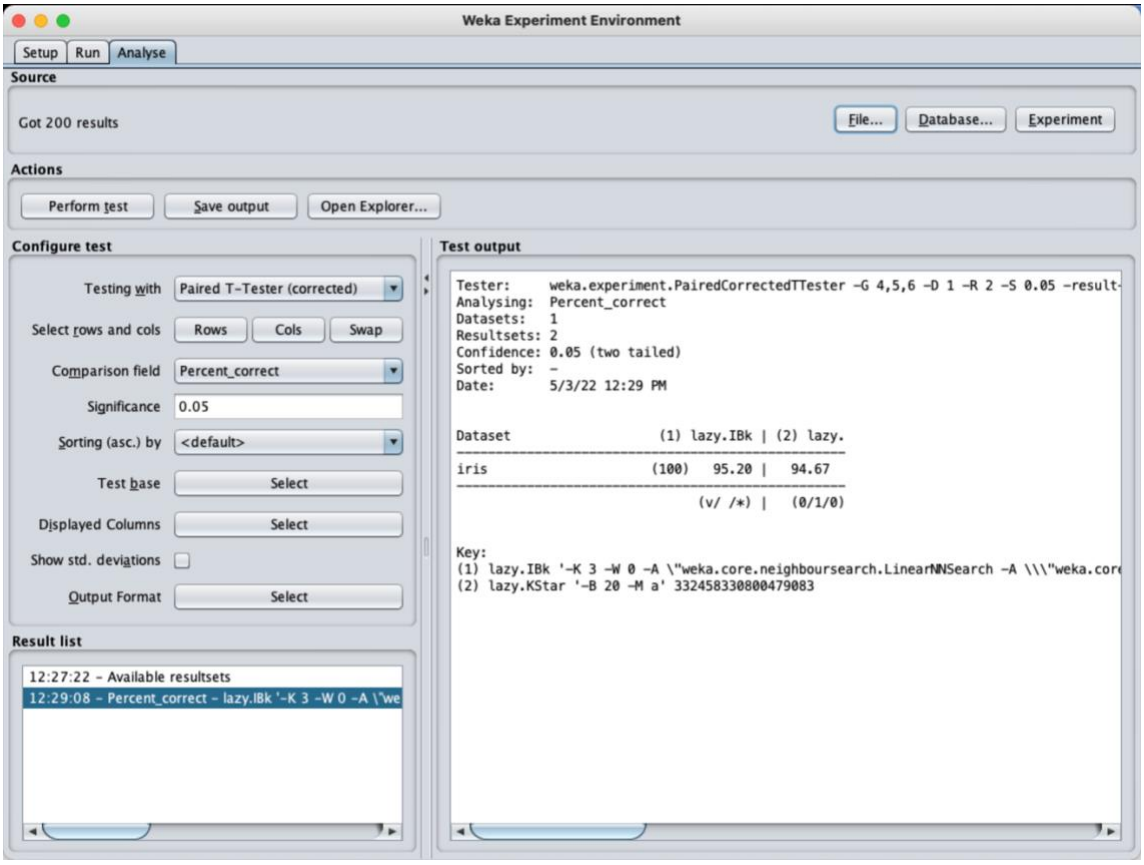
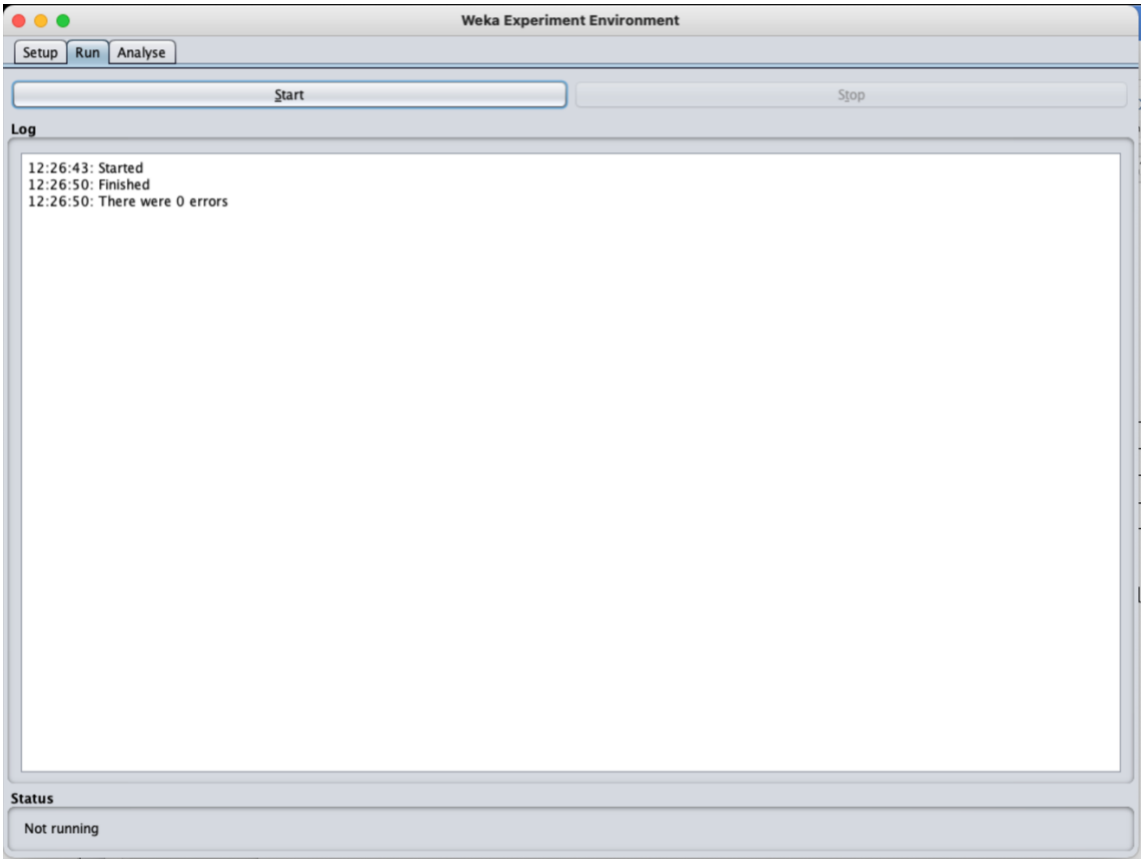
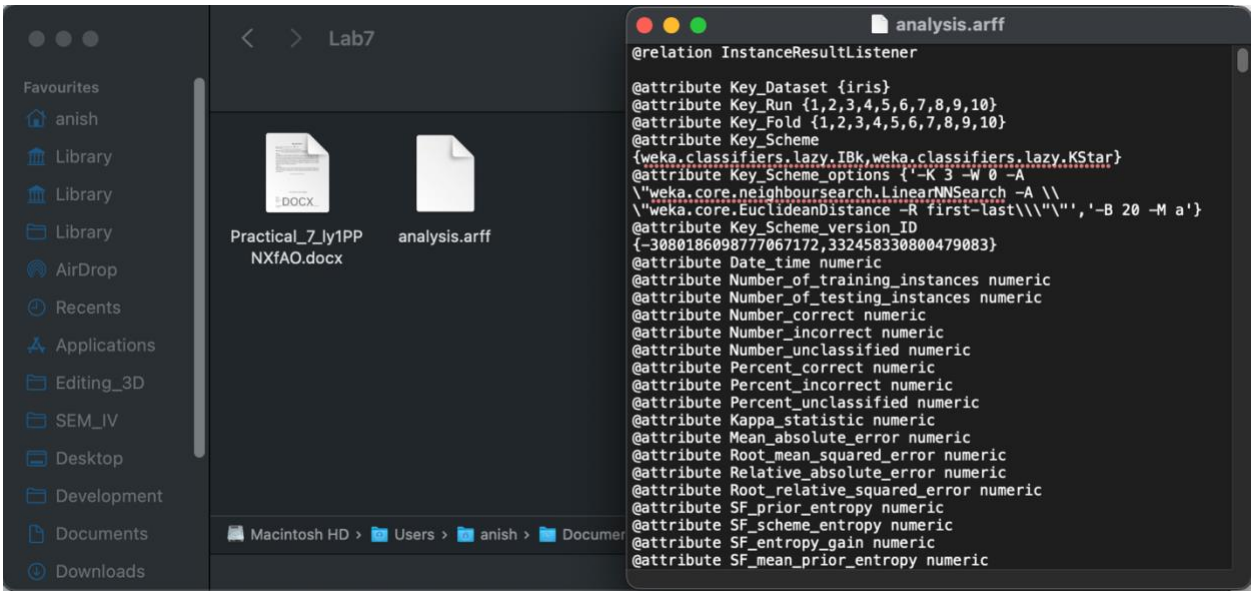
Create and run an experiment environment in WEKA tool on the Iris data set. Analyze the results obtained.




Weka Experiment Environment
Setup
Run
Analyse
Source
Got 200 results
File...
Database...
Experiment
Actions
Perform test
Save output
Open Explorer...
Configure test
Testing with
Paired T-Tester (corrected)
Select rows and cols
Rows
Cols
Swap
Comparison field
Percent_correct
Significance
0.05
Sorting (asc.) by
<default>
Test base
Select
Displayed Columns
Select
Show std. deviations
Output Format
Select
Result list
12:27:22 - Available resultsets
12:29:08 - Percent_correct - lazy.IBk '-K 3 -W 0 -A \"we
Test output
Tester: weka.experiment.PairedCorrectedTTester -G 4,5,6 -D 1 -R 2 -S 0.05 -result
Analysing: Percent_correct
Datasets: 1
Resultsets: 2
Confidence: 0.05 (two tailed)
Sorted by: -
Date: 5/3/22 12:29 PM
Dataset (1) lazy.IBk | (2) lazy.
iris (100) 95.20 | 94.67
(v/ /*) | (0/1/0)
Key:
(1) lazy.IBk '-K 3 -W 0 -A \"weka.core.neighboursearch.LinearNNSearch -A \\\"weka.core
(2) lazy.KStar '-B 20 -M a' 332458330800479083


Weka Experiment Environment
Setup
Run
Analyse
Start
Stop
Log
12:26:43: Started
12:26:50: Finished
12:26:50: There were 0 errors
Status
Not running

Analysis report created in the desired location



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