

Artificial Intelligence

Fall 2018

Assignment # 3

Max Marks: 50

Due Date: November 12, 2018

Q1. Perform experiments using WEKA tool with three classification and three clustering algorithms on three different datasets. Present all your results in a compact form (tables and graphs). Intelligently comment on the results relating them to the evaluation approaches and algorithms.

The Experimenter interface (rather than the Explorer interface) of WEKA may be a more efficient way of performing experiments. Read about WEKA interfaces and implementation on the web tutorial to gain better understanding. (20)

- Plagiarized assignments will get zero credit and will result in F grade.
- Assignments submitted after due date will not be accepted.
- **One of the classification algorithm/technique must be ANN (Multilayer Perceptron)**
- You must submit assignment on Slate Assignment submission folder.

The submission consists of a detailed report along with details of the algorithms used, experimental setup, data sets used, and analysis of results (tables, graphs etc.).

The required web links have been placed in a doc file on SLATE.

WEKA

1. <http://www.cs.waikato.ac.nz/ml/weka/>
2. <http://www.cs.waikato.ac.nz/ml/weka/downloading.html>

DATA-SETS resources

3. <http://archive.ics.uci.edu/ml/datasets.html>
4. <https://www.csie.ntu.edu.tw/~cjlin/libsvmtools/datasets/>
5. www.data.gov

GOOD LUCK☺