CS6301 - Machine Learning Lab

Date: 07.03.22

Set up your environment and start the WEKA Explorer

<u>Preprocess, Classify, and Visualize panels</u>

1. In Preprocess:
   - load a dataset (weather.nominal) and look at it
   - use the Data Set Editor
   - apply a filter (to remove attributes and instances).
2. In Visualize:
   - load a dataset (iris) and visualize it
   - examine instance info
   - (note discrepancy in numbering between instance info and dataset viewer)
   - select instances and rectangles; save the new dataset to a file.
3. In Classify:
   - load a dataset (weather, nominal) and classify it with the J48 decision tree learner (test on training set)
   - examine the tree in the Classifier output panel
   - visualize the tree (by right-clicking the entry in the result list)
   - interpret classification accuracy and confusion matrix
   - test the classifier on a supplied test set
   - visualize classifier errors (by right-clicking the entry in the result list)

Instructions to be followed - Observation

1. Write description about WEKA tool.

3. Write the results u obtined

4. At the end, u should add some inference (what do u understand from the results u got)