Data Mining

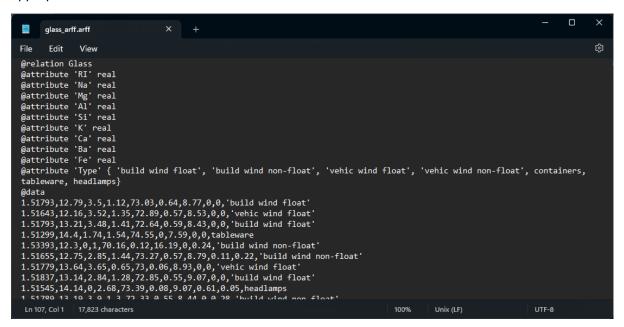
Assignment 3

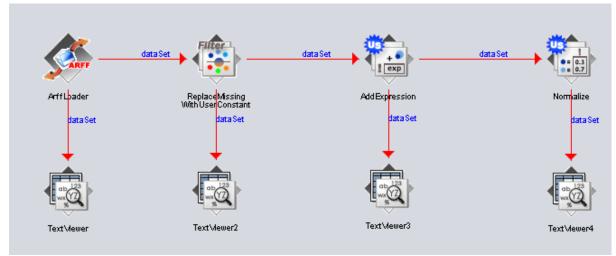
Name: Ayush Kumar

Reg. no.: 20214284

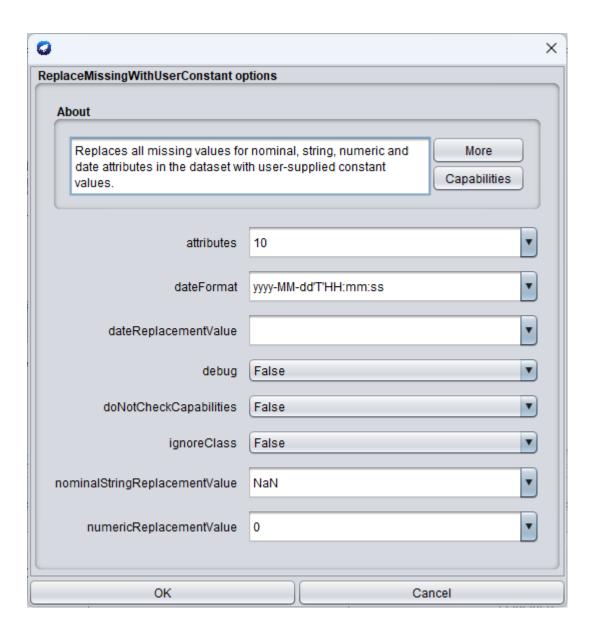
Group: CSE-6B1

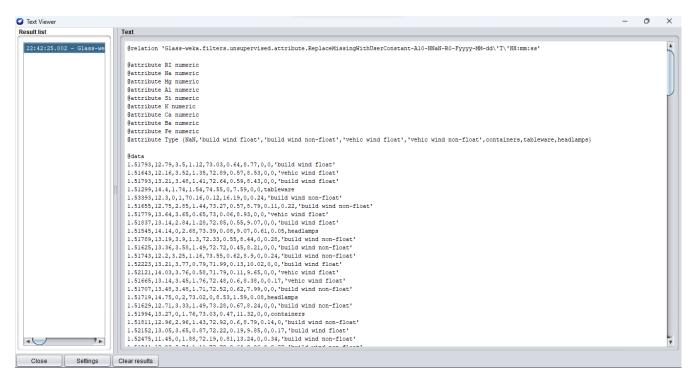
Q1.Use of filters in Weka Knowledge Flow: Use Glass dataset and do the following operations using appropriate filters.



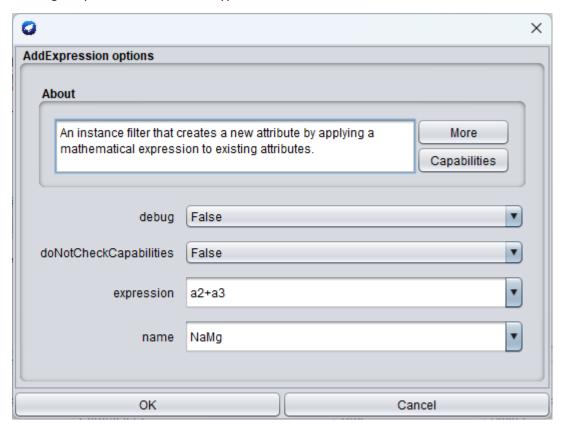


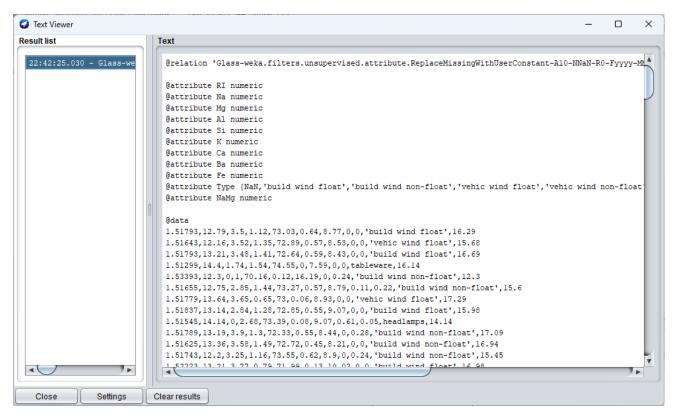
a. Mark missing values with name NaN.



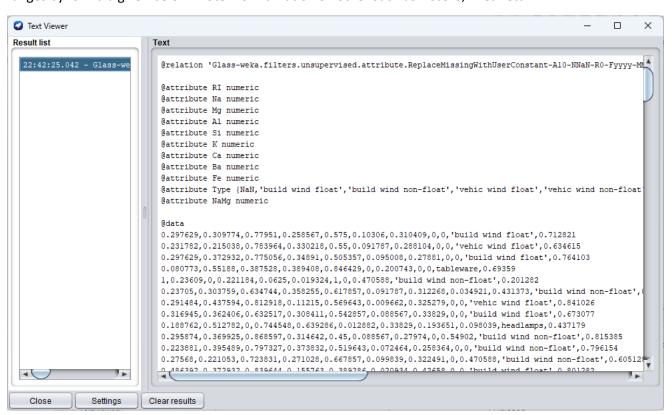


b. Marge any two similar numeric types attribute into new attributes.

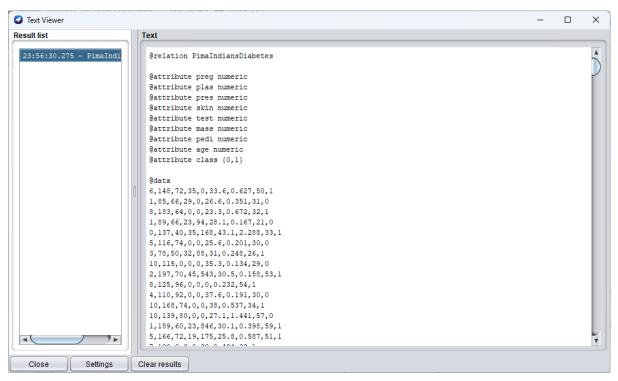


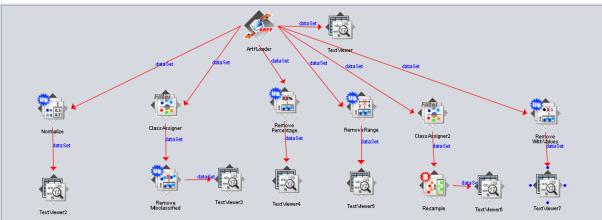


c. Select single /multi numeric attributes and convert it into numerical range between (Min-Max) ranges by formula given below: Note: normalization on other such as z-score, linear etc.

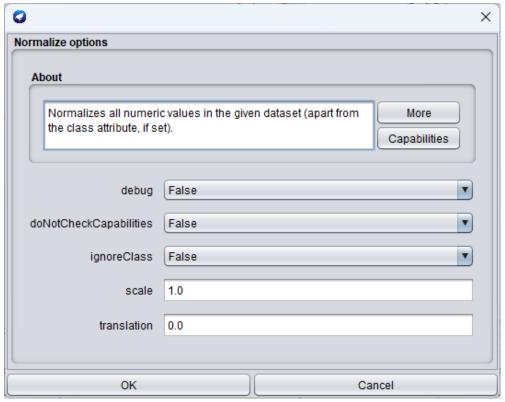


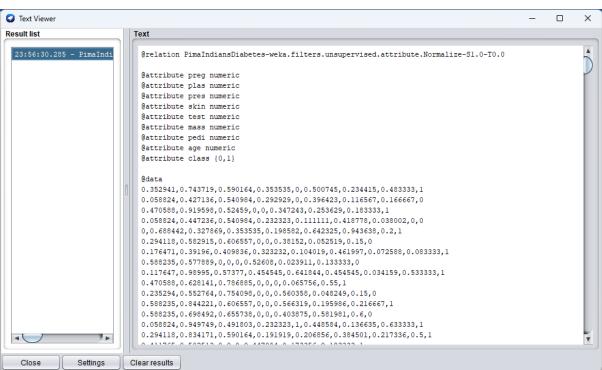
Q2. Download (https://www.kaggle.com/datasets/kumargh/pimaindiansdiabetescsv Pima Indian Diabetes Dataset (PIDD) and do following operations and save all reports in separate file using data sink .csv format.



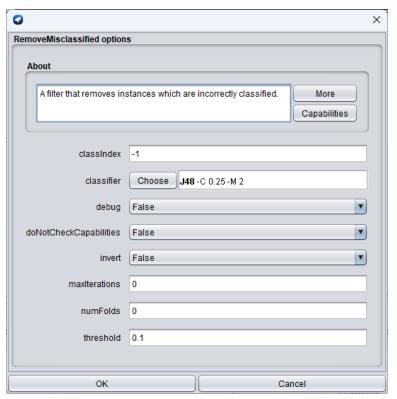


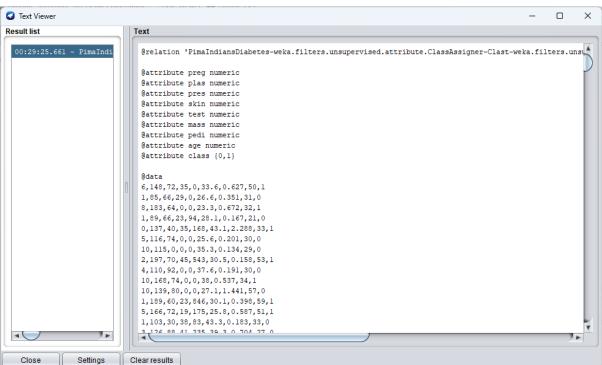
a. Normalize all numeric attributes



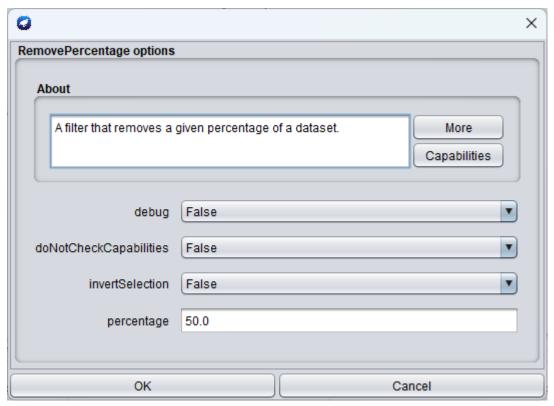


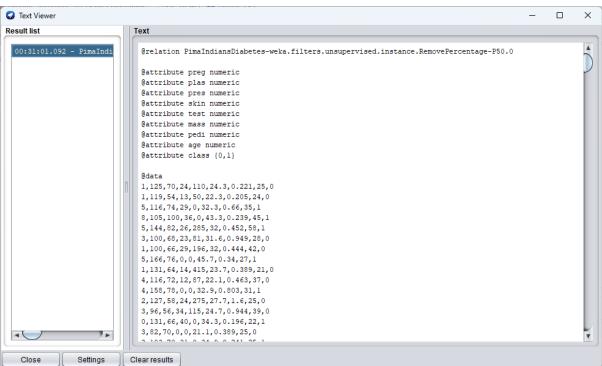
b. Remove all misclassified value by J48 class filter



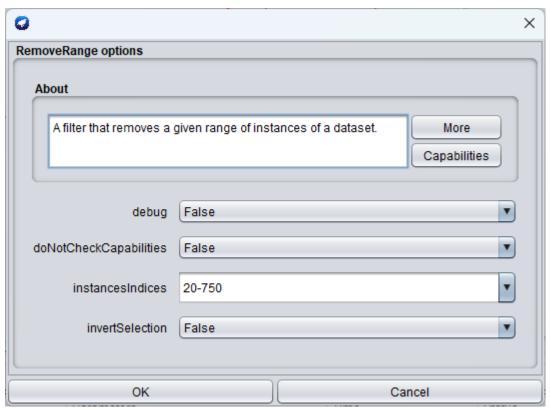


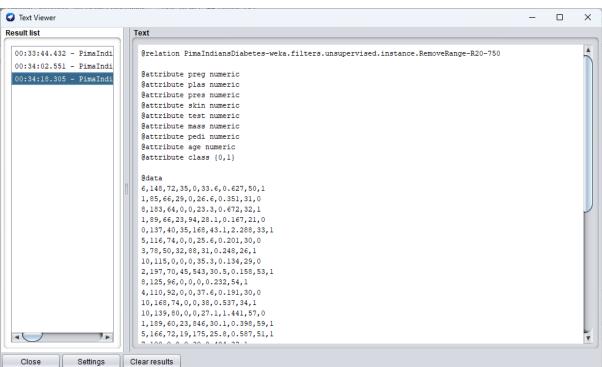
c. Remove Percent



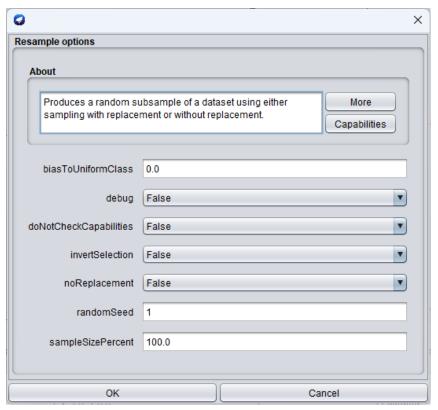


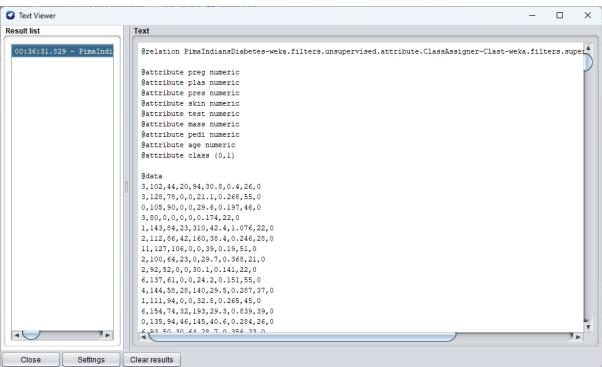
d. Remove Range





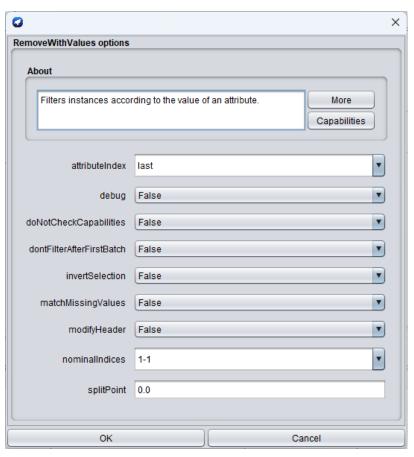
e. Resample

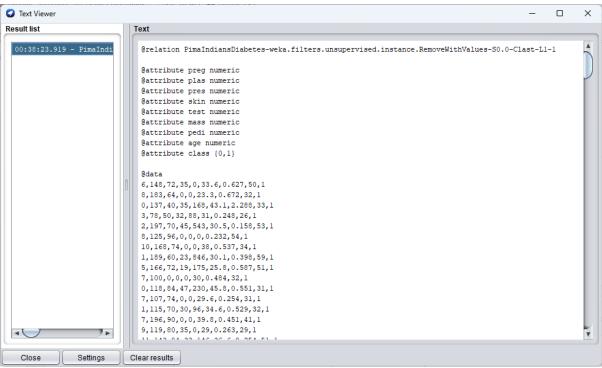




f. Remove With Values

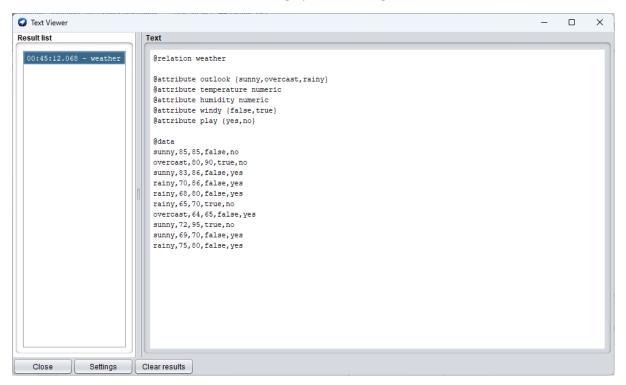
instances with class=0 removed



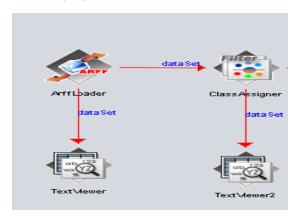


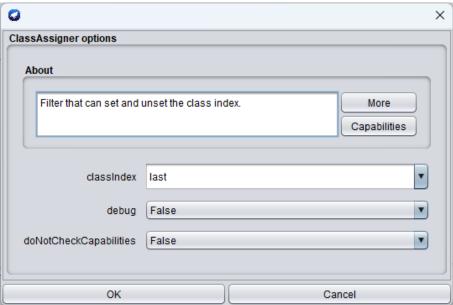
Q3.Training -test layout maker using Weka Knowledge Flow:

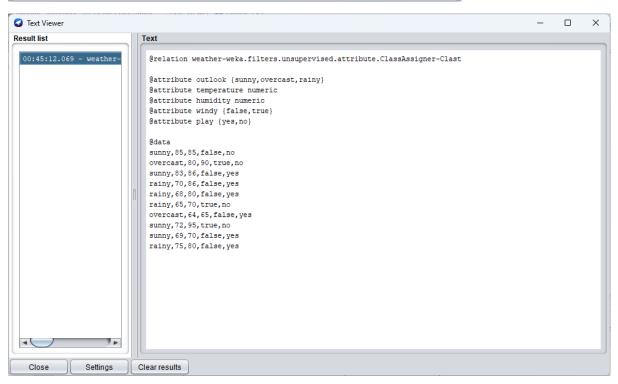
Load weather.arrf dataset and do the following operation using:



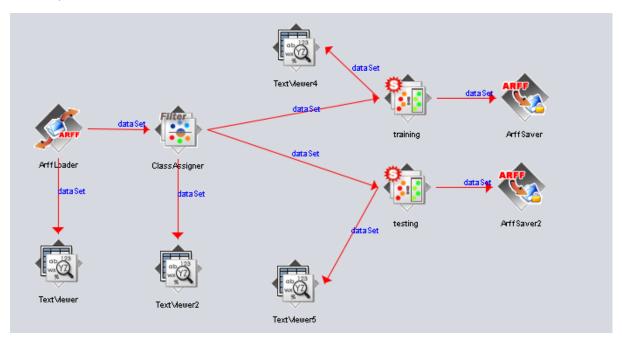
a. Make play attribute as Class label.

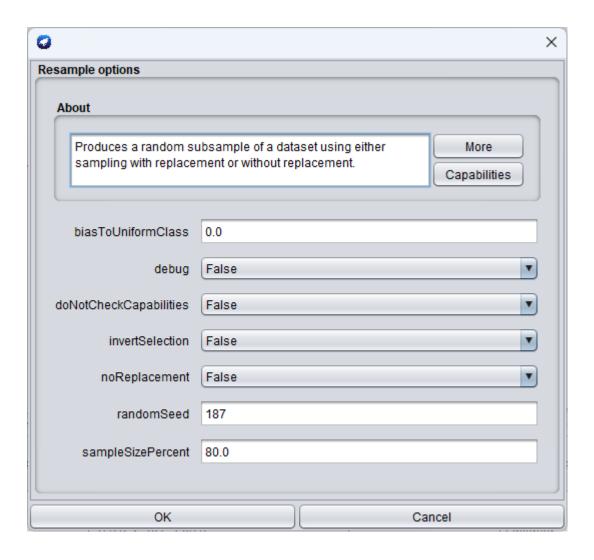


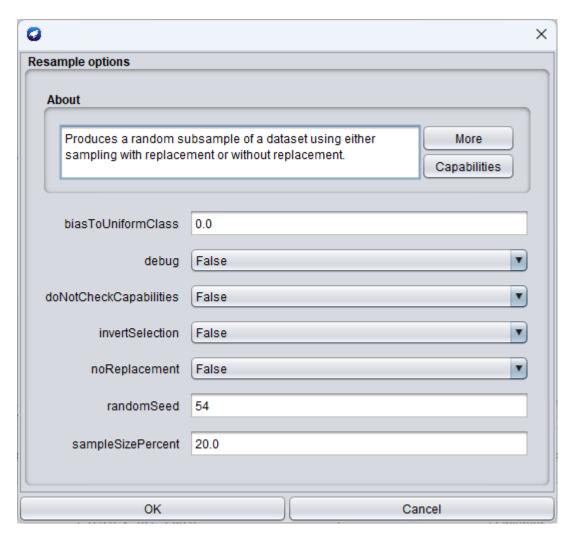




b. Split dataset into training (80%) and testing(20%) part and save both splits in different folds in directory location







c. Prepare 5 fold cross validation testing data and filter all such folds which having all given class label nominal values.

