ABSTRACT

Along with the changing times, data that need to be processed are increasing. It's necessary to produce an accurate decision. In one data, there could be more than one features, but not every feature is needed for a specific process.This final project implements one of feature selection algorithm, C-LAS Relief for multiclass dataset. This dataset ought to have more than 2 classes. C-LAS Relief algorithm choosesnearest hit and nearest miss value. The result will be used to calculate weight for each attribute in every instance.The result depends on sample choices and threshold. A process using C-LAS Relief algorithm produces dataset with less attributes but more relevant to be used for classification.In order to measure this algorithm's performance, a Symetrical Uncertainty (SU) will be calculated from the new dataset and included in classification process, with accuration, recall and F-measure as its parameters. At last, C-LAS Relief algorithm has capability to produce new dataset with less dimension and increase the result of classification using certain m and threshold parameter.

Keywords: *feature selection*, C-LAS Relief,*nearest hit, nearest miss, dataset*