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TUGAS DT

1. Get the "Abalone" dataset from UCI ML Repo
2. Use a decision tree (C4.5/J48) learner in WEKA to predict the number of rings Abalone will have
3. Write the description of your process and methods. What parameters (testing/training size, classification target, subtree raising etc.) did you use? Did you preprocess the dataset? Why did you select those parameters/preprocessing?

   Process:

   Mencari akurasi perkiraan umur kerang dari file abalone.data.arff. Dimana disini menggunakan metod test split 0,66.

   Parameter:

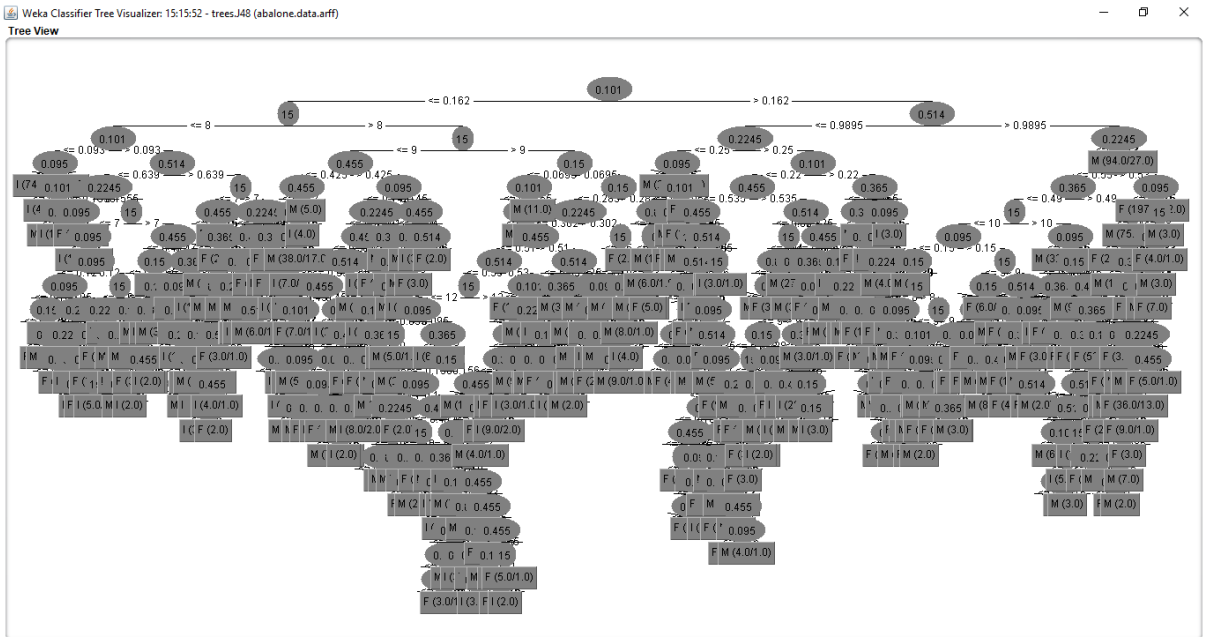
   Menggunakan parameter weka.classifiers.trees.J48 dengan default settings

   - Subtree raising: true

   Method:

   - Data set: 4176
   - Train set: 2756
   - Test set: 1420
   - Test mode: split 66%

4. What were your results? Show what decision trees you found.



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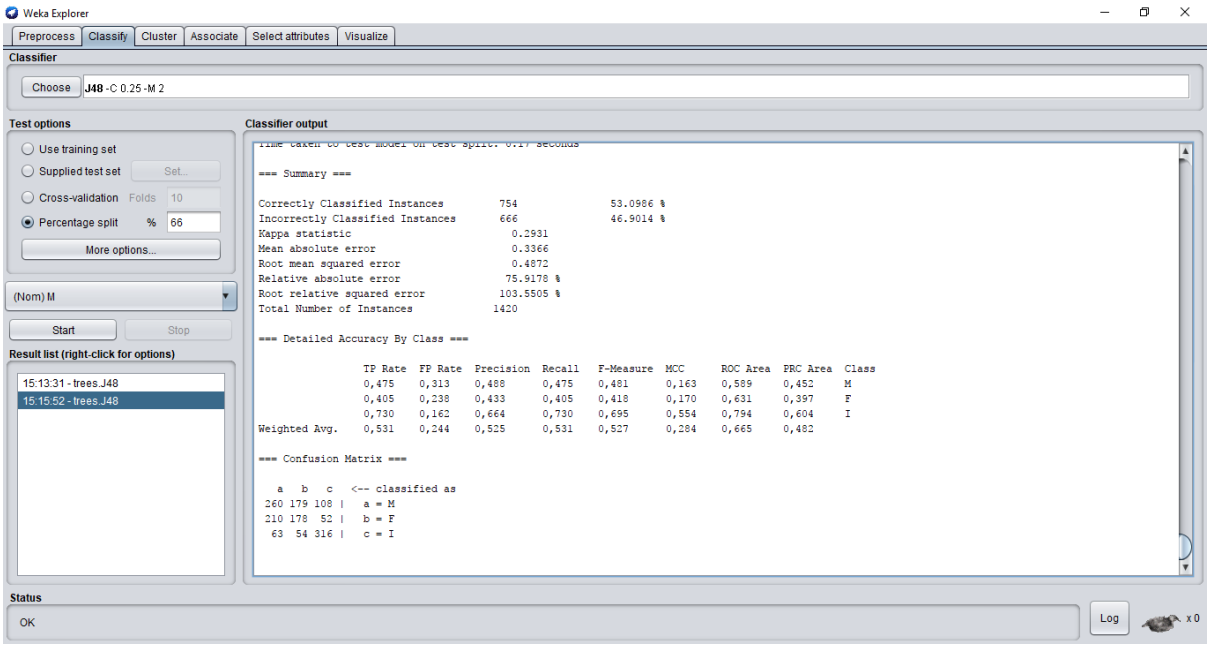
5. What do the results tell us? Why are the results (in)accurate? Why did changing parameter(s) improve/degrade accuracy?

   Result:

   - Correctly Classified Instances 754 53.0986 %
   - Incorrectly Classified Instances 666 46.9014 %
   - Missclassified:

a	b	c	<-- classified as
260	179	108	a = M
210	178	52	b = F
63	54	316	c = I



Mengubah parameter akan menyebabkan kenaikan ataupun penurunan akurasi karena akan berpengaruh pada test set dan train set yang digunakan sebagai inputan dalam mencari akurasi menggunakan decision tree ini.