

CTE algorithm

1. Create a new Learner.
 2. Split data set into two (Train and Test).
 3. Train the Learner on the training set.
 4. Create confusion matrix using testing set.
 5. Build confusion graph from the confusion matrix.
 6. Perform cluster analysis on confusion graph (produces clusters of classes that are strongly confused).
 7. For each cluster that contains more than one class create new sub-classifier (node in the tree) to classify each class in that cluster as well as a place holder class called "*Other*" that represents all classes that this learner does not categorise.
 8. Build new output mapping for this classifier.
 9. Build new input-to-output mappings for each sup classifier.
 10. If hierarchy contains untrained classifiers go to 3.
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