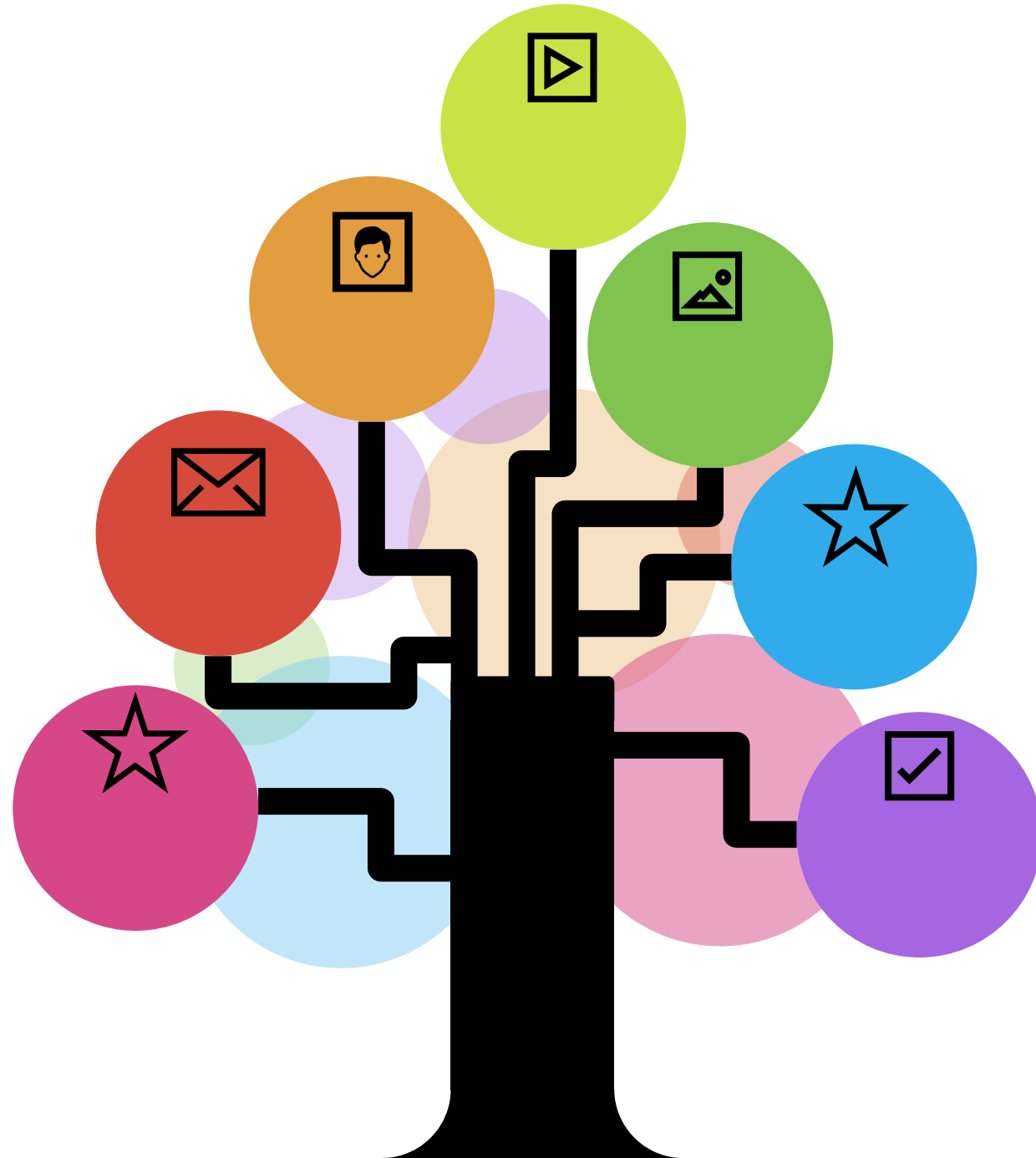


Decision Trees

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How to regulate decision tree complexity and avoid overfitting?

1. Regularization is a more sophisticated approach to prevent overfitting. Combining decision tree with regularization, to become as random forest classifiers. The random forest could correct the overfitting of decision trees.

Source: CS-EJ3211-Machine learning with Python, Aalto University

2. By pruning the decision tree to limit the depth of decision tree or the number of leaves at each leaf node,

1) Pre-pruning: to prune the tree before the tree perfectly classifies the training set.

2) Post-pruning: to prune the tree after the tree perfectly classify the training set.