

# Module 14: Model Selection and Boosting

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## Case Study – 3

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### Questions:

1. The data file contains numerical attributes that describe a letter and its corresponding class. Read the datafile “letterCG.data” and set all the numerical attributes as features. Split the data into train and test sets.
2. Fit a sequence of AdaBoostClassifier with varying numbers of weak learners ranging from 1 to 16, keeping the max\_depth as 1. Plot the accuracy of the test set against the number of weak learners. Use the decision tree classifier as the base classifier.
3. Repeat step2 with max\_depth set as 2.

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