

# Module 14: Model Selection and Boosting

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## Case Study – 2

**edureka!**

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### Objectives:

- Learn to use Cross-validation to pick the best models.

### Questions:

1. Load the data from “glass.csv” and make a bar plot of different types of glasses.
2. Make a train\_test split and fit a single decision tree classifier.
3. Make a k-fold split with 3 splits and measure the accuracy score with each split  
[Hint: Refer to KFold module under sklearn’s model selection.]
4. Use gridSearchCV from sklearn for finding out a suitable number of estimators for a RandomForestClassifier along with 10-fold cross-validation.  
[Hint: Define a range of estimators and feed in range as param\_grid]