

Module 14: Model Selection and Boosting

Case Study

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Case Study

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 a 10-fold cross validation.
[Hint: Define a range of estimators and feed in range as param_grid]