Section 1: Ensemble Methods for Regression and Classification

Now that you are done with the videos of section 1, let's assess your learning. Here, are a few questions, followed by 4 options, out of which 1 is the correct option. Select the right option and validate your learning! The answers are provided in a separate sheet

Q1. The core idea of this method is to fit a sequence of weak learners (models) and then in every iteration re-weight the samples of the training dataset:

a. Random Forests
b. AdaBoost
c. Bagging
d. Decision trees

Q2. The key idea of Ensemble Learning is:

a. Build many models and compare them
b. Combine the predictions of weak learners
c. Produce many models and select the best
d. Combine predictions from many individual predictors to improve performance

Q3. In principle any model can be used in Bagging

a. TRUE
b. FALSE

Q4. When using the class RandomForestClassifier from sklearn.ensemble, the parameter n_estimators corresponds to:

a. Number of estimations in the model
b. Number of trees in the forest
c. Number of parameters to estimate
d. Number of estimations in every iteration