Predictive Analytics Term 4, 2020

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Syndicate Task #4

Continue your search for the best predictive model for red/white wine quality.

1. Use the training data set to construct the following models:
    a. Support Vector Machine (SVM)
    b. Bagging
    c. Random forest
    d. Boosting
2. Construct predictions for the test set using these four methods.
3. Comment on how your results from these methods compare to your analysis from Syndicate Tasks #1 and #3. Discuss both the predictability of the models, as well as the relationship between wine quality and the physicochemical properties that these methods reveal. Include the performance oriented asymmetric loss that you constructed in Syndicate Task #3 in your analysis.
4. Discuss the limitations of your predictive assessments and any improvements that can be made to address these limitations.

Produce a 3-page report that summarizes your analysis.

This task is due at 6pm on Sunday 25h October 2020.