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Combine Signals for Enhanced Alpha

REVIEW
CODE REVIEW
HISTORY

Requires Changes

1 specification requires changes

Great job, you are almost there! @Clearly, you have acquired all the important concepts from this project. You only need to make some modifications and then you are ready to go. Wish you all the best for the upcoming projects!

Tip: If you are interested in this topic, I would suggest that you could read this post to get more ideas about how to combine different alpha signals. Also this notebook to learn how to determine the risk exposure of alpha factors. Moreover, you can take a look at this curated list to learn more about how other people are using ML to do the financial prediction.

Features and Labels

Describe	the re	-lationsh	nin hetv	ween the	shifted	lahels.

Great observation! ⚠ The auto-correlation is indeed highly correlated between two consecutive days.

Correctly implement the train_valid_test_split function.

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Good job on splitting the data sets based on the index | all_x.index.levels[0] | [2]

Random Forests

Describe why dispersion_20d has the highest feature importance, when the first split is on the Momentum_1YR feature.

You're slightly off from the question. The idea is that the feature importance will be **accumulated** and every split we only consider using the maximum important one to do the split. In other words, the Momentum_1YR feature has the largest information gain for one split. The dispersion_20d feature has more information gain when dealing with more splits.

The reason why dispersion_20d has the highest feature importance is that the grea test normalized total reduction of the criterion it the one brought by dispersion _20d, which is used in 3 nodes, while the others are used in less than 3 nodes.

Describe how the accuracy changes over time and what indicates the model is overfitting or underfitting.

Great answer The model is indeed overfitting because the accuracy of training is much better than the validation set

Overlapping Samples

Correctly implement the non_overlapping_samples function.
Good job, you correctly implement the non_overlapping_samples function. △
Correctly implement the bagging_classifier function.
Fantastic, bagging_classifier function is correctly implemented.

Well done, you successfully complete this calculate_oob_score function with oob_score_ attribute.

Tip: Here is another way to it.

Correctly implement the calculate_oob_score function.

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```
np.mean([clf.oob_score_ for clf in classifiers])

Correctly implement the non_overlapping_estimators function.

Good, non_overlapping_estimators function successfully passed the test by correctly using non_overlapping_samples to split the data for each classifier.

n_x, n_y = non_overlapping_samples(x, y, n_skip_samples, start_i=i)

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```

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