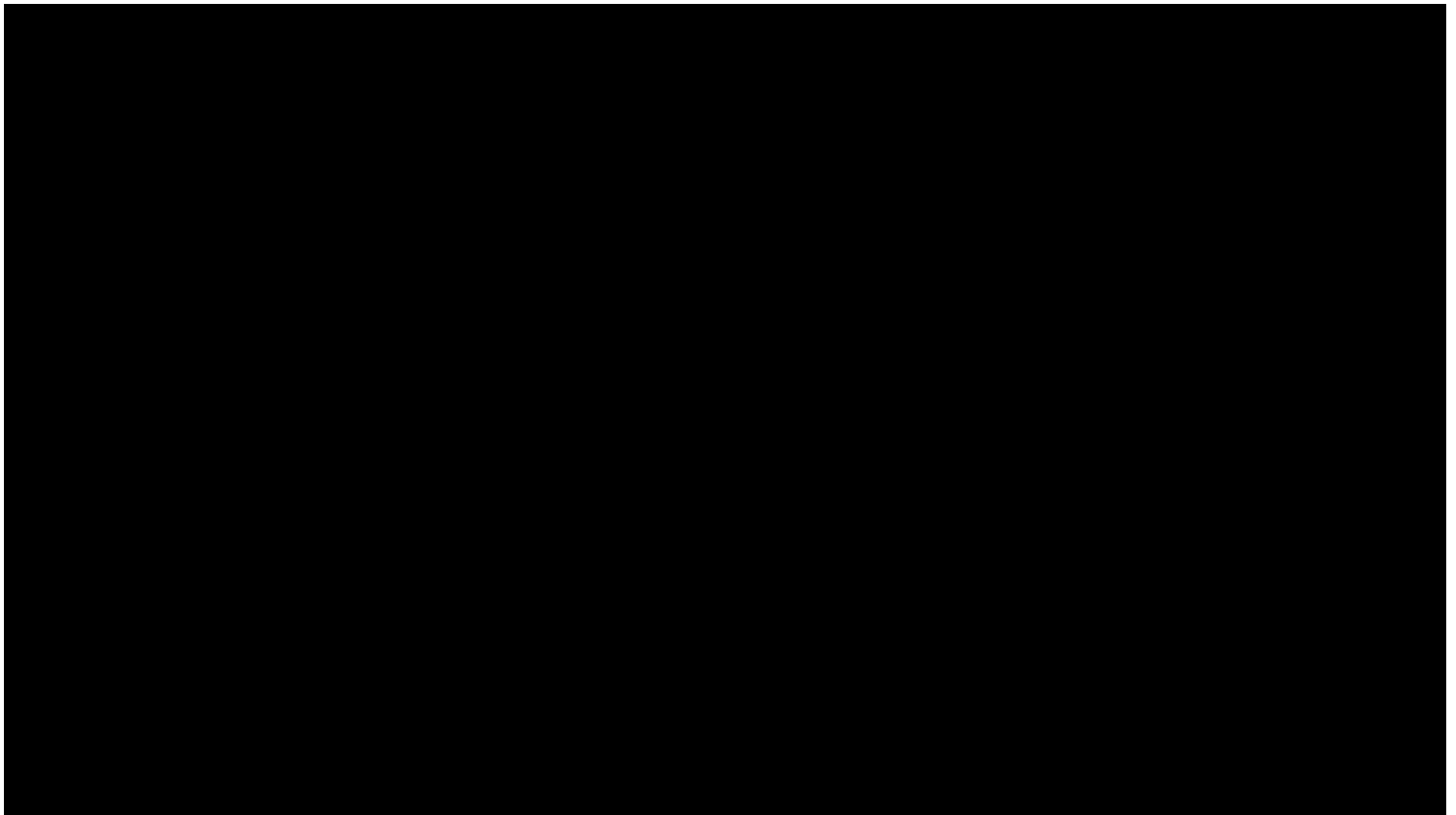


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DB

Different method signature (defaults?) for XGBRegressor

0 ⋮

[David](#) · [Lecture 71](#) · 35 minutes ago

Hey Chandra. When I inspected `regressor` (defined in the lecture's notebook with `regressor = xgb.XGBRegressor()`), I got more parameters as well as parameters with different values that were shown on screen. Most intriguing to me was the `regression.booster`; mine was `None`. Does that mean my tree was not boosted?

Here's what was in my Jupyter notebook

```
1 | In [n]:  
2 | -----  
3 | # Default Options #DWB# shown by inspecting regressor  
4 | #DWB# I don't like the format from just feeding in the name  
5 | #regressor  
6 | print(str(regressor)) # more than were there in Chandra's Lecture
```

```

7 | print( (f"\nFor my default,\n  regression.booster = {regressor.booster},\n"
8 |       "whereas in Chandra's lecture\n"
9 |       "("Lab - Training Simple Regression","\n"
10 |      "at 2:08 in the video, as seen 20230720T185200-0600),\n"
11 |      "I saw\n  regression.booster = 'gbtree'."
12 |      )
13 |      )
14 | -----

```

[Output]

```

1 | XGBRegressor(base_score=None, booster=None, callbacks=None,
2 |              colsample_bylevel=None, colsample_bynode=None,
3 |              colsample_bytrees=None, early_stopping_rounds=None,
4 |              enable_categorical=False, eval_metric=None, feature_types=None,
5 |              gamma=None, gpu_id=None, grow_policy=None, importance_type=None,
6 |              interaction_constraints=None, learning_rate=None, max_bin=None,
7 |              max_cat_threshold=None, max_cat_to_onehot=None,
8 |              max_delta_step=None, max_depth=None, max_leaves=None,
9 |              min_child_weight=None, missing=nan, monotone_constraints=None,
10 |             n_estimators=100, n_jobs=None, num_parallel_tree=None,
11 |             predictor=None, random_state=None, ...)
12 |
13 | For my default,
14 |     regression.booster = None,
15 | whereas in Chandra's lecture
16 | ("Lab - Training Simple Regression",
17 |  at 2:08 in the video, as seen 20230720T185200-0600),
18 |  we saw
19 |     regression.booster = 'gbtree'.

```

Is this something to be concerned about?

1 reply

Following replies

DB

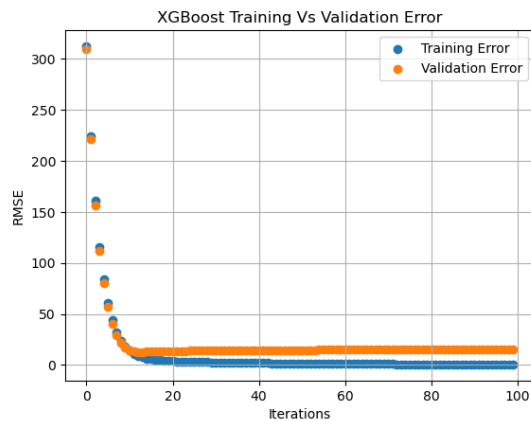
[David](#)

0  

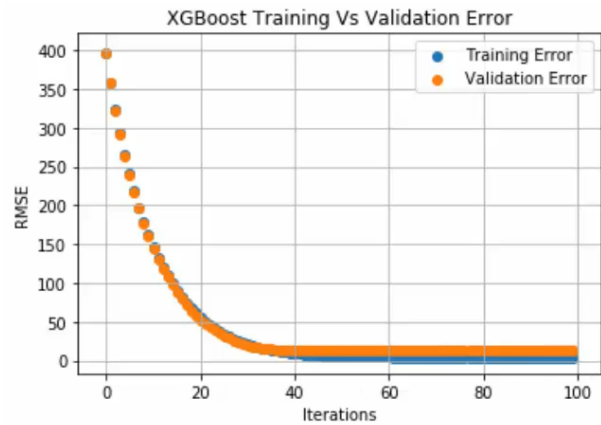
A few seconds ago

(Just for completeness, without making one post too long...)

The plots (mine and Chandra's) for XGBoost Training Vs Validation Error:



Mine



Chandra's

Corresponding RMSE Values at the end

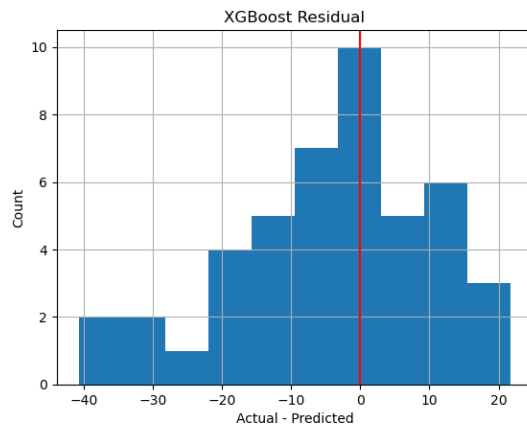
```
[95] validation_0-rmse:0.43824 validation_1-rmse:15.05033
[96] validation_0-rmse:0.43266 validation_1-rmse:15.05148
[97] validation_0-rmse:0.41700 validation_1-rmse:15.05335
[98] validation_0-rmse:0.40495 validation_1-rmse:15.05614
[99] validation_0-rmse:0.39714 validation_1-rmse:15.06363
```

```
[95] validation_0-rmse:3.5712 validation_1-rmse:13.6678
[96] validation_0-rmse:3.56877 validation_1-rmse:13.6706
[97] validation_0-rmse:3.56182 validation_1-rmse:13.6723
[98] validation_0-rmse:3.54583 validation_1-rmse:13.6715
[99] validation_0-rmse:3.50536 validation_1-rmse:13.6938
```

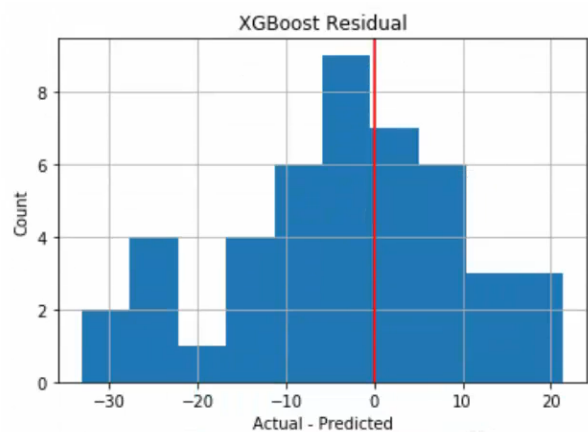
The plots for XGBoost Residual

(As before, my stuff is on the left, Chandra's stuff is on the right.)

XGBoost Algorithm Metrics
Mean Squared Error: 226.91
Root Mean Square Error: 15.06



XGBoost Algorithm Metrics
Mean Squared Error: 187.52
Root Mean Square Error: 13.69



These are non-trivially different, even when taking into account the differences in x-range and y-range. Does it matter?

DB

Add reply

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