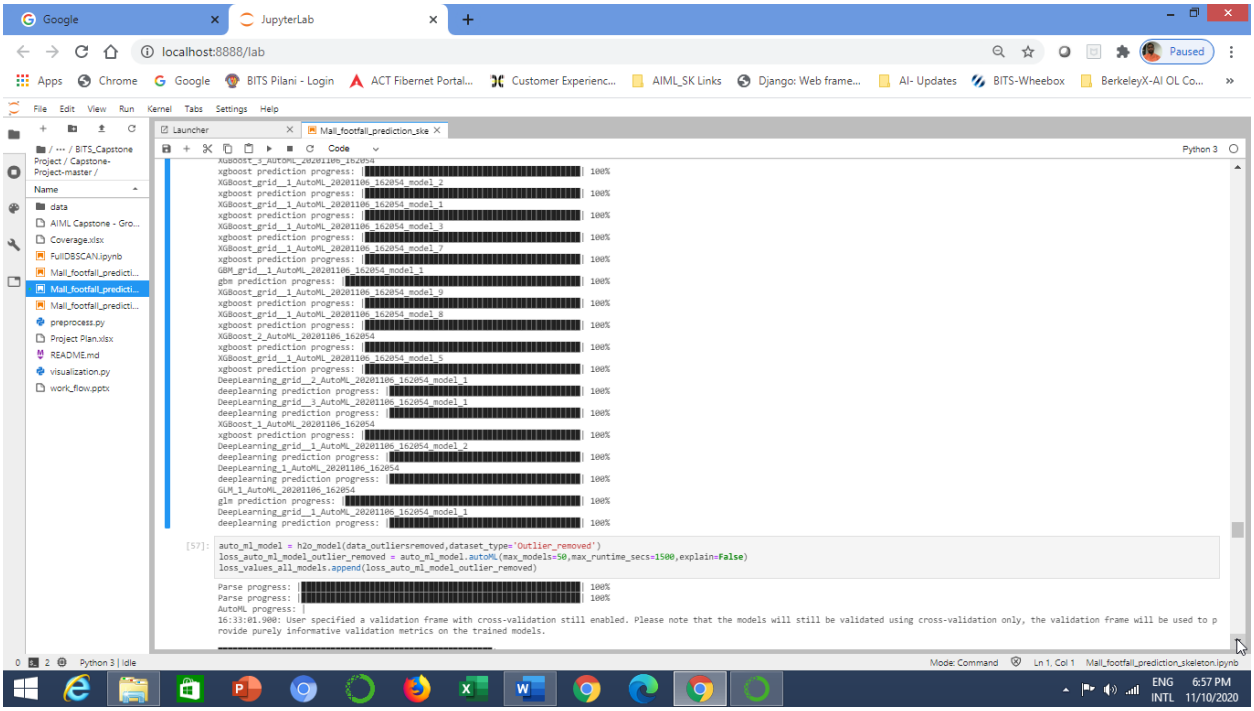
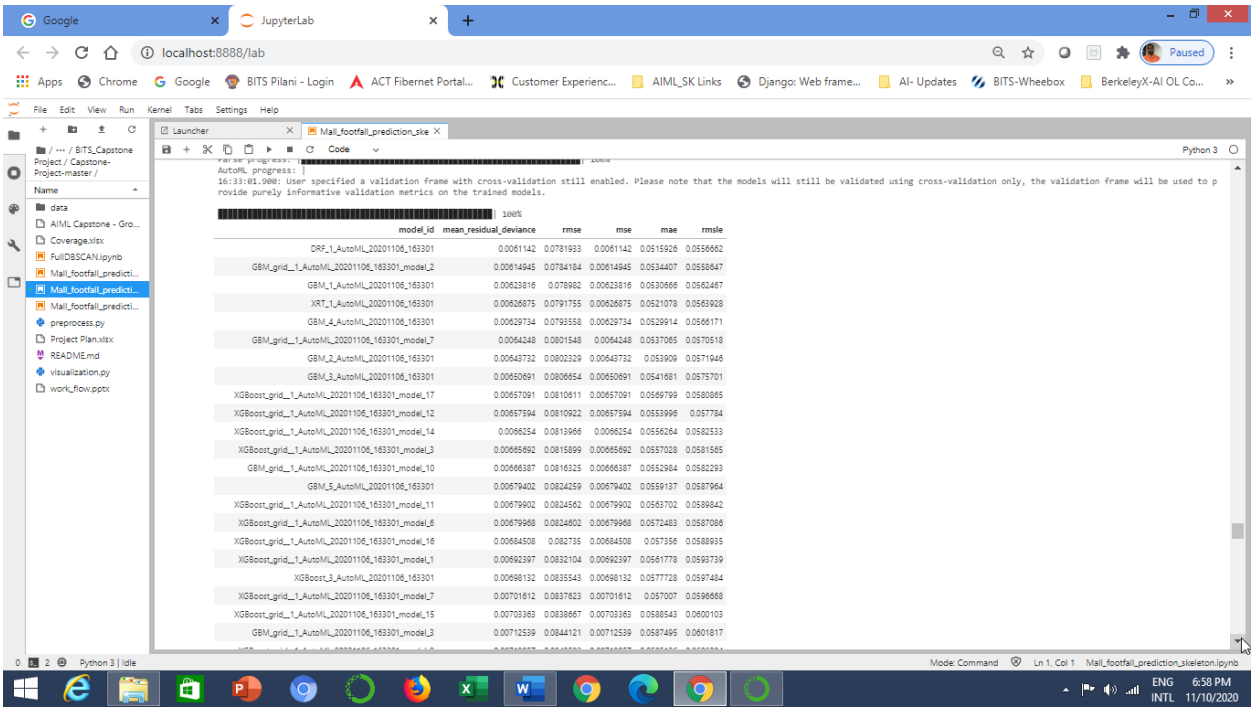
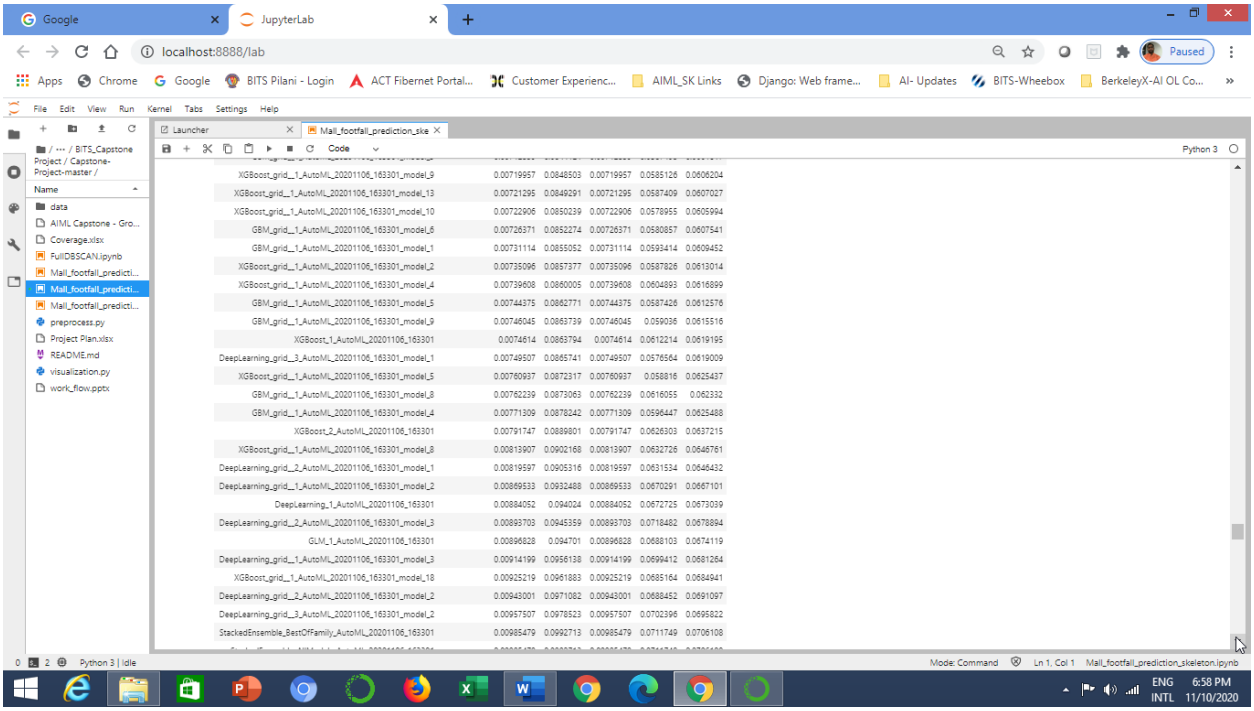
Code_Snippets-Part-3







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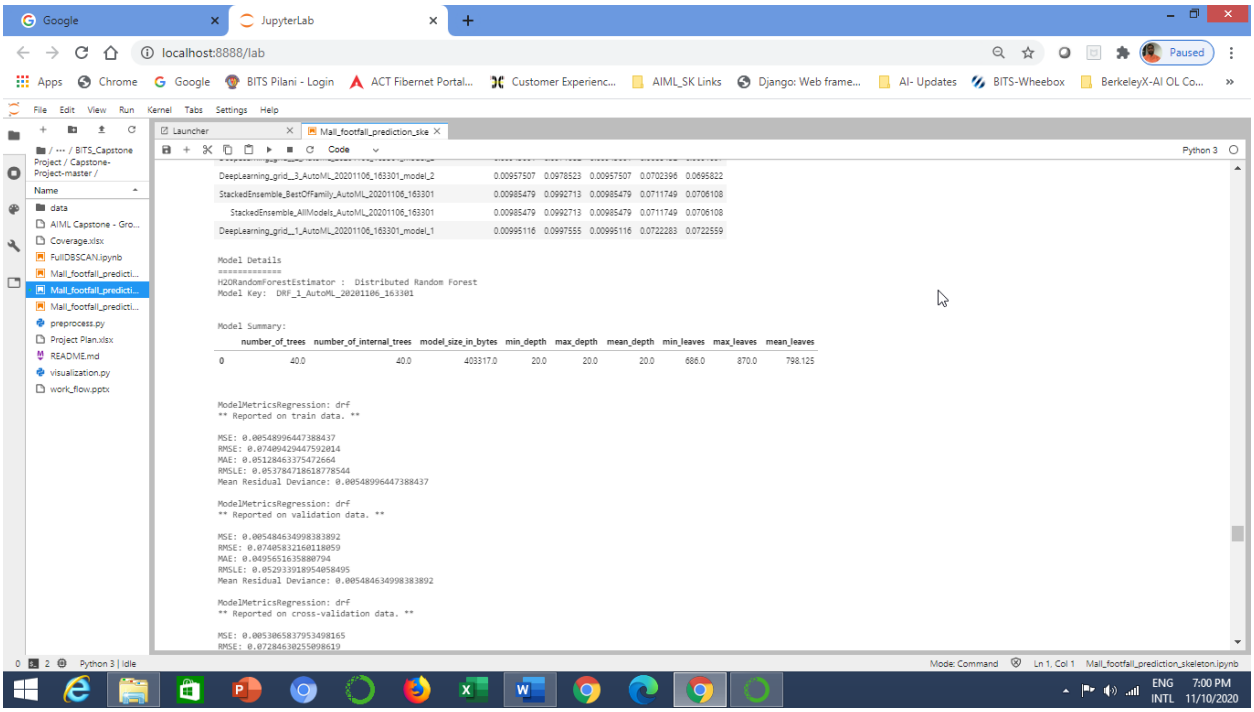
XGBoost_grid__1_AutoML_20201106_163301_model_13	0.00721295	0.0849291	0.00721295	0.0587409	0.0607027
XGBoost_grid__1_AutoML_20201106_163301_model_10	0.00722906	0.0850239	0.00722906	0.0578955	0.0605994
GBM_grid__1_AutoML_20201106_163301_model_6	0.00726371	0.0852274	0.00726371	0.0580857	0.0607541
GBM_grid__1_AutoML_20201106_163301_model_1	0.00731114	0.0855052	0.00731114	0.0593414	0.0609452
XGBoost_grid__1_AutoML_20201106_163301_model_2	0.00735096	0.0857377	0.00735096	0.0587826	0.0613014
XGBoost_grid__1_AutoML_20201106_163301_model_4	0.00739608	0.0860005	0.00739608	0.0604893	0.0616899
GBM_grid__1_AutoML_20201106_163301_model_5	0.00744375	0.0862771	0.00744375	0.0587426	0.0612576
GBM_grid__1_AutoML_20201106_163301_model_9	0.00746045	0.0863739	0.00746045	0.059036	0.0615516
XGBoost_1_AutoML_20201106_163301	0.0074614	0.0863794	0.0074614	0.0612214	0.0619195
DeepLearning_grid__3_AutoML_20201106_163301_model_1	0.00749507	0.0865741	0.00749507	0.0576564	0.0619009
XGBoost_grid__1_AutoML_20201106_163301_model_5	0.00760937	0.0872317	0.00760937	0.058816	0.0625437
GBM_grid__1_AutoML_20201106_163301_model_8	0.00762239	0.0873063	0.00762239	0.0616055	0.062382
GBM_grid__1_AutoML_20201106_163301_model_4	0.00771309	0.0878242	0.00771309	0.0596447	0.0625488
XGBoost_2_AutoML_20201106_163301	0.00791747	0.0889801	0.00791747	0.0626303	0.0637215
XGBoost_grid__1_AutoML_20201106_163301_model_8	0.00813907	0.0902168	0.00813907	0.0632726	0.0646761
DeepLearning_grid__2_AutoML_20201106_163301_model_1	0.00819597	0.0905316	0.00819597	0.0631534	0.0646432
DeepLearning_grid__1_AutoML_20201106_163301_model_2	0.00869533	0.0932488	0.00869533	0.0670291	0.0667101
DeepLearning_1_AutoML_20201106_163301	0.00884052	0.094024	0.00884052	0.0672725	0.0673039
DeepLearning_grid__2_AutoML_20201106_163301_model_3	0.00893703	0.0945359	0.00893703	0.0718482	0.0678894
GLM_1_AutoML_20201106_163301	0.00896828	0.094701	0.00896828	0.0688103	0.0674119
DeepLearning_grid__1_AutoML_20201106_163301_model_3	0.00914199	0.0956138	0.00914199	0.0699412	0.0681264
XGBoost_grid__1_AutoML_20201106_163301_model_18	0.00925219	0.0961883	0.00925219	0.0685164	0.0684941
DeepLearning_grid__2_AutoML_20201106_163301_model_2	0.00943001	0.0971082	0.00943001	0.0688452	0.0691097
DeepLearning_grid__3_AutoML_20201106_163301_model_2	0.00957507	0.0978523	0.00957507	0.0702396	0.0695822
StackedEnsemble_BestOfFamily_AutoML_20201106_163301	0.00985479	0.0992713	0.00985479	0.0711749	0.0706108



DeepLearning_grid__3_AutoML_20201106_163301_model_2	0.00957507	0.0978523	0.00957507	0.0702396	0.0695822
StackedEnsemble_BestOfFamily_AutoML_20201106_163301	0.00985479	0.0992713	0.00985479	0.0711749	0.0706108
StackedEnsemble_AllModels_AutoML_20201106_163301	0.00985479	0.0992713	0.00985479	0.0711749	0.0706108
DeepLearning_grid__1_AutoML_20201106_163301_model_1	0.00995116	0.0997555	0.00995116	0.0722283	0.0722559

```
Model Details
=============
H2ORandomForestEstimator :  Distributed Random Forest
Model Key:  DRF_1_AutoML_20201106_163301


Model Summary:
```

	number_of_trees	number_of_internal_trees	model_size_in_bytes	min_depth	max_depth	mean_depth	min_leaves	max_leaves	mean_leaves
0	40.0	40.0	403317.0	20.0	20.0	20.0	686.0	870.0	798.125

```
ModelMetricsRegression: drf
** Reported on train data. **

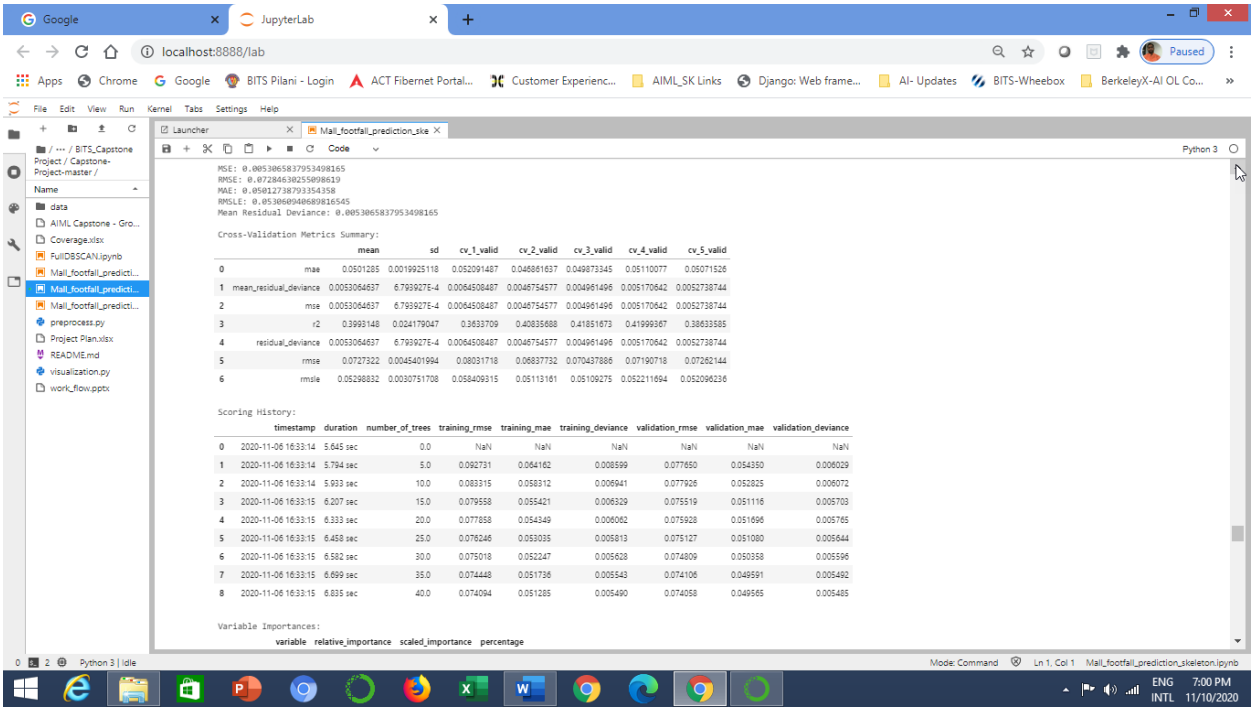
MSE: 0.00548996447388437
RMSE: 0.07409429447592014
MAE: 0.05128463375472664
RMSLE: 0.05378471861878544
Mean Residual Deviance: 0.00548996447388437

ModelMetricsRegression: drf
** Reported on validation data. **

MSE: 0.005484634998383892
RMSE: 0.07405832160118859
MAE: 0.049565163588079 4
RMSLE: 0.05293391895408495
Mean Residual Deviance: 0.005484634998383892

ModelMetricsRegression: drf
** Reported on cross-validation data. **

MSE: 0.005306583795349816 5
RMSE: 0.07284630255098619
```



```
MSE: 0.005306583795349816 5
RMSE: 0.07284630259896195
MAE: 0.05012738793354358
RMSLE: 0.05306494068981654 5
Mean Residual Deviance: 0.005306583795349816 5
```

Cross-Validation Metrics Summary:

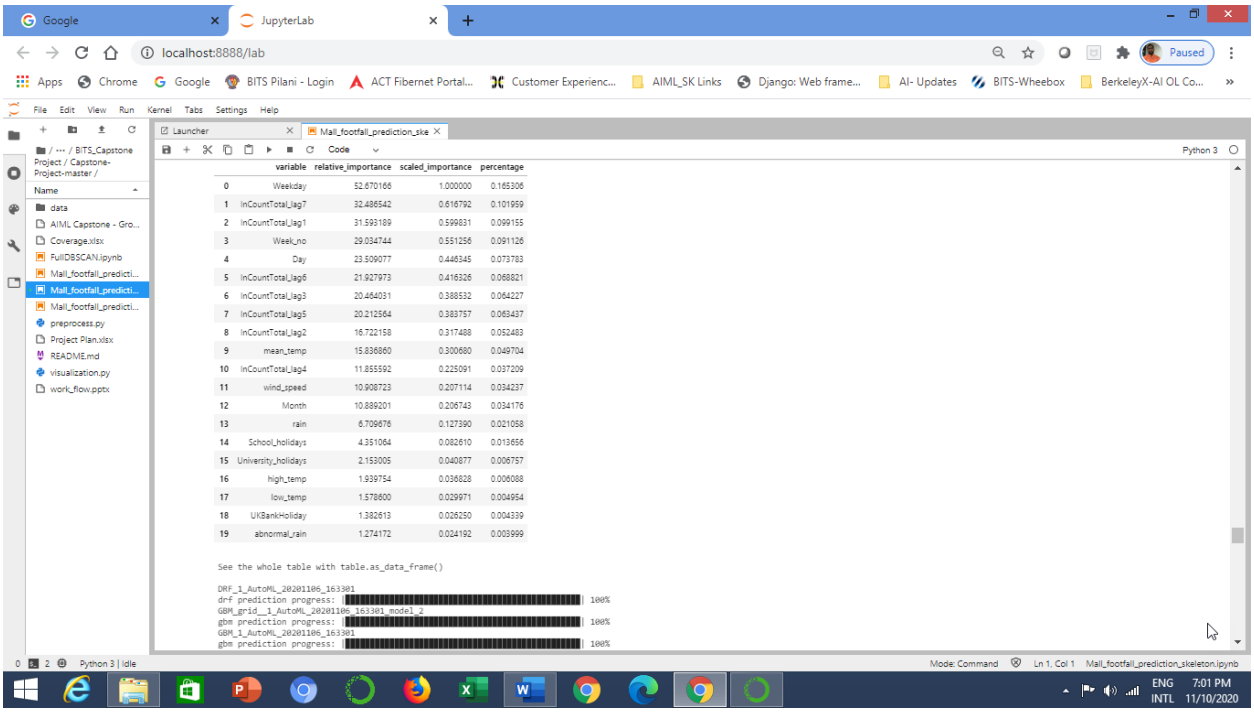
		mean	sd	cv_1_valid	cv_2_valid	cv_3_valid	cv_4_valid	cv_5_valid
0	mae	0.0501285	0.0019925118	0.052091487	0.046861637	0.049873345	0.05110077	0.05071526
1	mean_residual_deviance	0.0053064637	6.793927E-4	0.0064508487	0.0046754577	0.004961496	0.005170642	0.0052738744
2	mse	0.0053064637	6.793927E-4	0.0064508487	0.0046754577	0.004961496	0.005170642	0.0052738744
3	r2	0.3993148	0.024179047	0.3633709	0.40835688	0.41851673	0.41999367	0.38633585
4	residual_deviance	0.0053064637	6.793927E-4	0.0064508487	0.0046754577	0.004961496	0.005170642	0.0052738744
5	rmse	0.0727322	0.0045401994	0.08031718	0.06837732	0.070437886	0.07190718	0.07262144
6	rmsle	0.05298832	0.0030751708	0.058409315	0.05113161	0.05109275	0.052211694	0.052096236

Scoring History:

	timestamp	duration	number_of_trees	training_rmse	training_mae	training_deviance	validation_rmse	validation_mae	validation_deviance
0	2020-11-06 16:33:14	5.645 sec	0.0	NaN	NaN	NaN	NaN	NaN	NaN
1	2020-11-06 16:33:14	5.794 sec	5.0	0.092731	0.064162	0.008599	0.077650	0.054350	0.006029
2	2020-11-06 16:33:14	5.933 sec	10.0	0.083315	0.058312	0.006941	0.077926	0.052825	0.006072
3	2020-11-06 16:33:15	6.207 sec	15.0	0.079558	0.055421	0.006329	0.075519	0.051116	0.005703
4	2020-11-06 16:33:15	6.333 sec	20.0	0.077858	0.054349	0.006062	0.075928	0.051696	0.005765
5	2020-11-06 16:33:15	6.458 sec	25.0	0.076246	0.053035	0.005813	0.075127	0.051080	0.005644
6	2020-11-06 16:33:15	6.582 sec	30.0	0.075018	0.052247	0.005628	0.074809	0.050358	0.005596
7	2020-11-06 16:33:15	6.699 sec	35.0	0.074448	0.051736	0.005543	0.074106	0.049591	0.005492
8	2020-11-06 16:33:15	6.835 sec	40.0	0.074094	0.051285	0.005490	0.074058	0.049565	0.005485

Variable Importances:

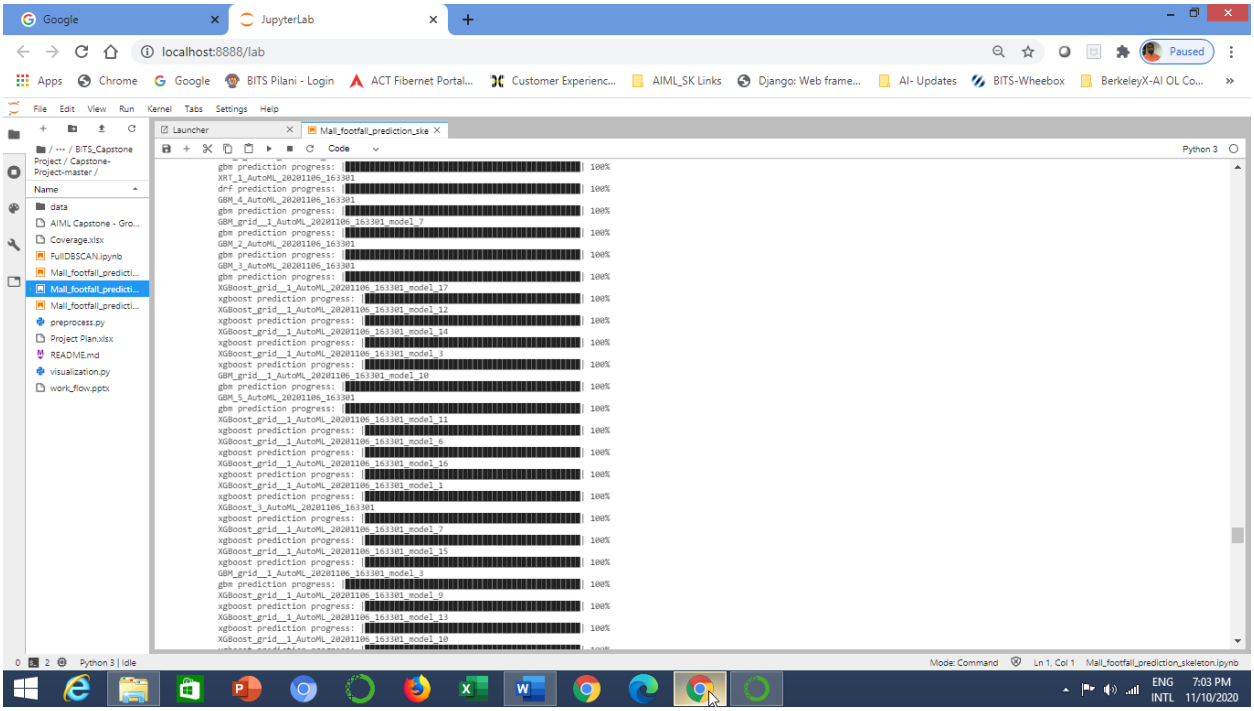
	variable	relative_importance	scaled_importance	percentage



	variable	relative_importance	scaled_importance	percentage
0	Weekday	52.670166	1.000000	0.165306
1	lnCountTotal_lag7	32.486542	0.616792	0.101959
2	lnCountTotal_lag1	31.593189	0.599831	0.099155
3	Week_no	29.034744	0.551256	0.091126
4	Day	23.509077	0.446345	0.073783
5	lnCountTotal_lag6	21.927973	0.416326	0.068821
6	lnCountTotal_lag3	20.464031	0.388532	0.064227
7	lnCountTotal_lag5	20.212564	0.383757	0.063437
8	lnCountTotal_lag2	16.722158	0.317488	0.052483
9	mean_temp	15.836860	0.300680	0.049704
10	lnCountTotal_lag4	11.855592	0.225091	0.037209
11	wind_speed	10.908723	0.207114	0.034237
12	Month	10.889201	0.206743	0.034176
13	rain	6.709676	0.127390	0.021058
14	School_holidays	4.351064	0.082610	0.013656
15	University_holidays	2.153005	0.040877	0.006757
16	high_temp	1.939754	0.036828	0.006088
17	low_temp	1.578600	0.029971	0.004954
18	UKBankHoliday	1.382613	0.026250	0.004339
19	abnormal_rain	1.274172	0.024192	0.003999

See the whole table with table.as_data_frame()

```
DRF_1_AutoML_20201106_163301
drf prediction progress: |████████████████████████████████████████| 100%
GBM_grid__1_AutoML_20201106_163301_model_2
gbm prediction progress: |████████████████████████████████████████| 100%
GBM_1_AutoML_20201106_163301
gbm prediction progress: |████████████████████████████████████████| 100%
```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FullDBSCAN.ipynb
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Mall_footfall_predicti...
preprocess.py
Project Plan.xlsx
README.md
visualization.py
work_flow.pptx
Python 3 | Idle
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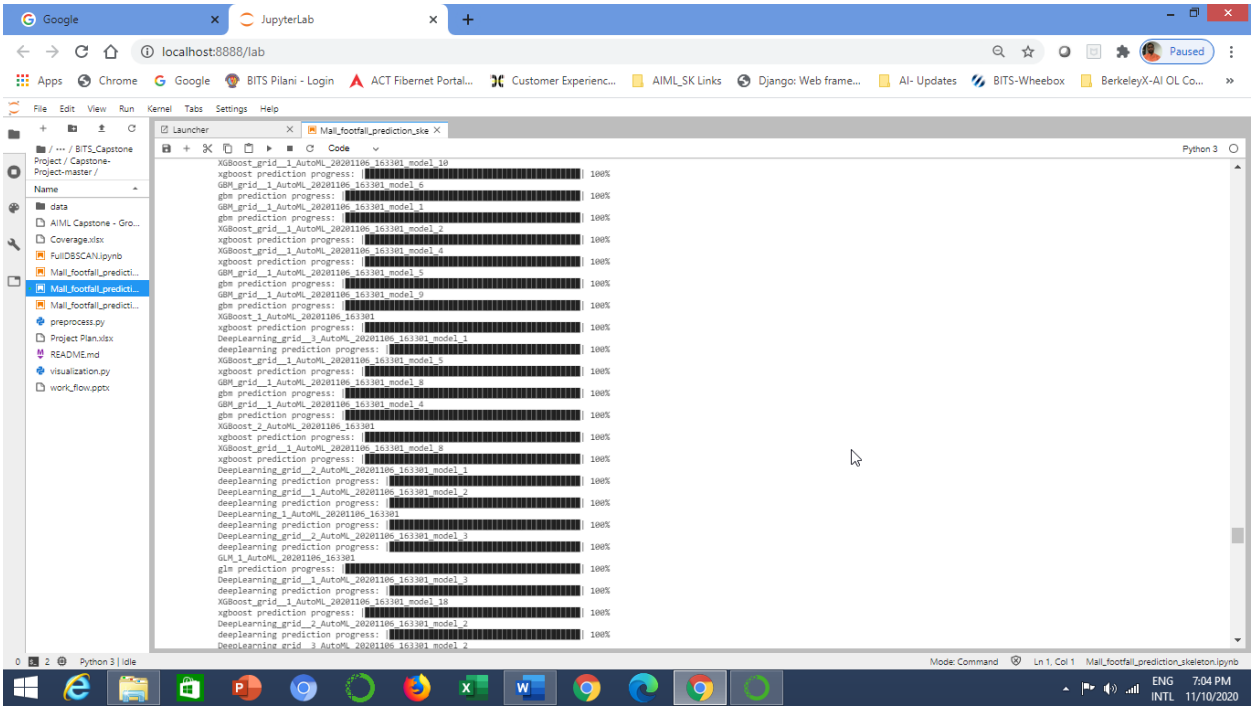
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FullDBSCAN.ipynb
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Project Plan.xlsx
README.md
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work_flow.pptx
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Mall_footfall_prediction_skeleton.ipynb
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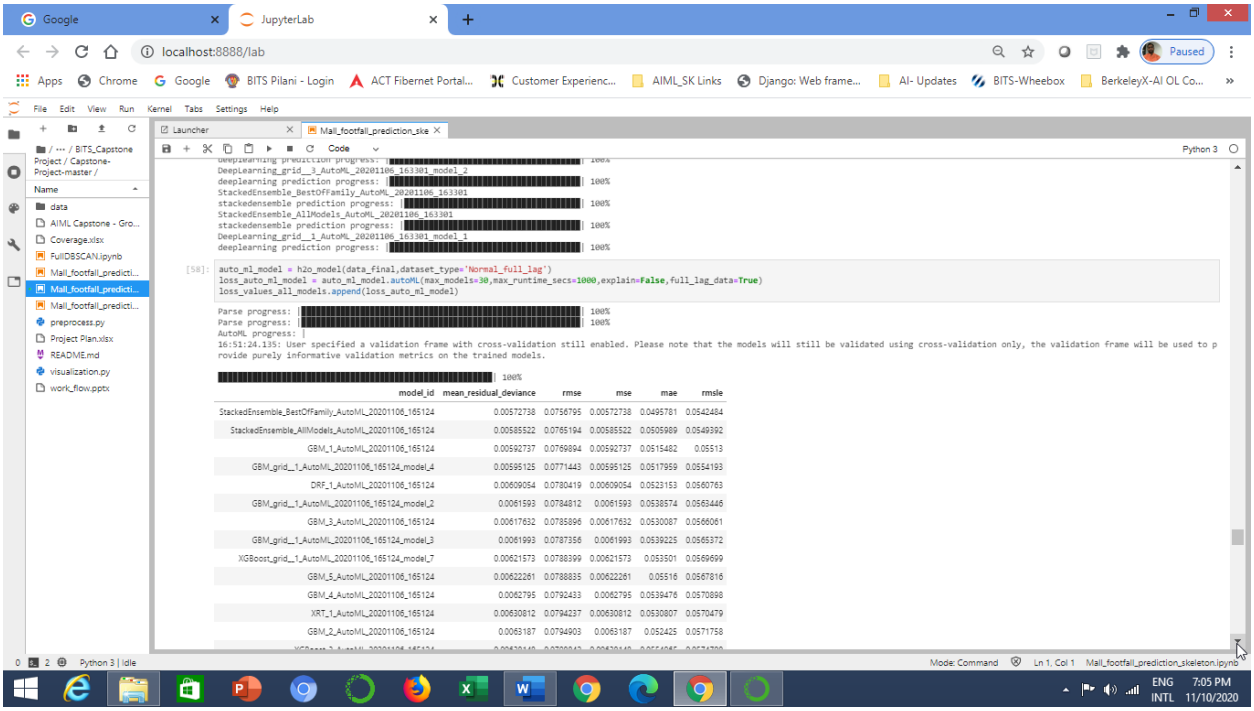
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BITS-Wheebox
BerkeleyX-AI OL Co...
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DeepLearning_grid__3_AutoML_20201106_163301_model_2 | 100%
deeplearning prediction progress: | 100%
StackedEnsemble_BestOfFamily_AutoML_20201106_163301
stackedensemble prediction progress: | 100%
StackedEnsemble_AllModels_AutoML_20201106_163301
stackedensemble prediction progress: | 100%
DeepLearning_grid__1_AutoML_20201106_163301_model_1
deeplearning prediction progress: | 100%
[58]:
auto_ml_model = h2o_model(data_final,dataset_type='Normal_full_lag')
loss_auto_ml_model = auto_ml_model.automL(max_models=30,max_runtime_secs=1000,explain=False,full_lag_data=True)
loss_values_all_models.append(loss_auto_ml_model)
Parse progress: | 100%
Parse progress: | 100%
AutoML progress: |
16:51:24.135: User specified a validation frame with cross-validation still enabled. Please note that the models will still be validated using cross-validation only, the validation frame will be used to p
rovide purely informative validation metrics on the trained models.
100%
model_id mean_residual_deviance rmse mse mae rmsle
StackedEnsemble_BestOfFamily_AutoML_20201106_165124 0.00572738 0.0756795 0.00572738 0.0495781 0.0542484
StackedEnsemble_AllModels_AutoML_20201106_165124 0.00585522 0.0765194 0.00585522 0.0505989 0.0549392
GBM_1_AutoML_20201106_165124 0.00592737 0.0769894 0.00592737 0.0515482 0.05513
GBM_grid__1_AutoML_20201106_165124_model_4 0.00595125 0.0771443 0.00595125 0.0517959 0.0554193
DRF_1_AutoML_20201106_165124 0.00609054 0.0780419 0.00609054 0.0523153 0.0560763
GBM_grid__1_AutoML_20201106_165124_model_2 0.0061593 0.0784812 0.0061593 0.0538574 0.0563446
GBM_3_AutoML_20201106_165124 0.00617632 0.0785896 0.00617632 0.0530087 0.0566061
GBM_grid__1_AutoML_20201106_165124_model_3 0.0061993 0.0787356 0.0061993 0.0539225 0.0565372
XGBoost_grid__1_AutoML_20201106_165124_model_7 0.00621573 0.0788399 0.00621573 0.053501 0.0569699
GBM_5_AutoML_20201106_165124 0.00622261 0.0788835 0.00622261 0.05516 0.0567816
GBM_4_AutoML_20201106_165124 0.0062795 0.0792433 0.0062795 0.0539476 0.0570898
XRT_1_AutoML_20201106_165124 0.00630812 0.0794237 0.00630812 0.0530807 0.0570479
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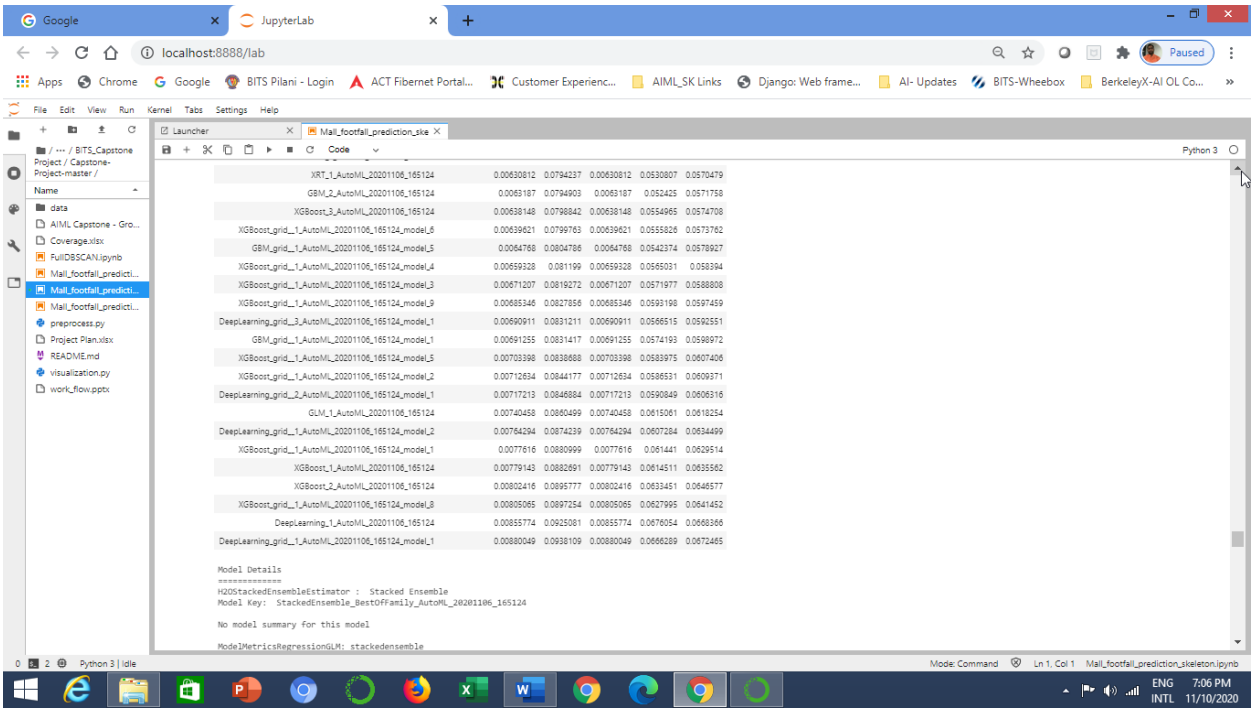
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Paused
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GBM_2_AutoML_20201106_165124 0.0063187 0.0794903 0.0063187 0.052425 0.0571758
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XGBoost_grid__1_AutoML_20201106_165124_model_8 0.00805065 0.0897254 0.00805065 0.0627995 0.0641452
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Model Details
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Model Key: StackedEnsemble_BestOfFamily_AutoML_20201106_165124
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ModelMetricsRegressionGLM: stackedensemble
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Ln 1, Col 1
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Python 3 | Idle
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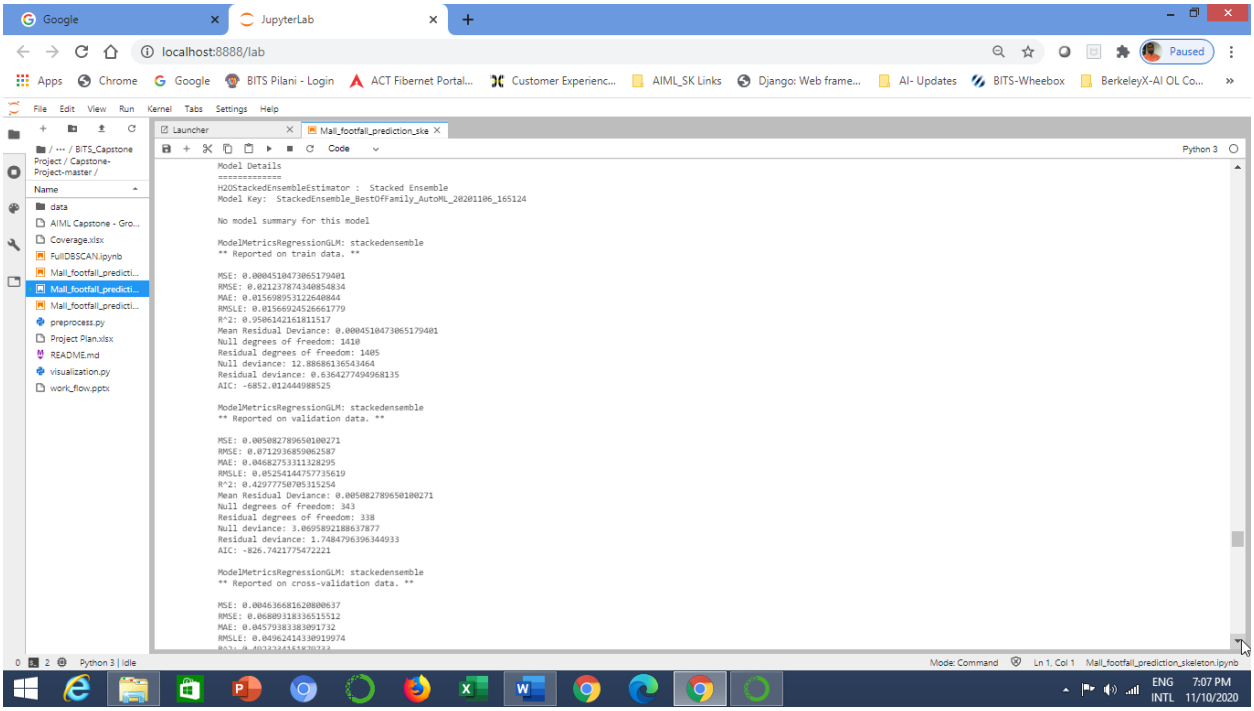
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FullDBSCAN.ipynb
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Mall_footfall_predicti...
Mall_footfall_predicti...
preprocess.py
Project Plan.xlsx
README.md
visualization.py
work_flow.pptx
Model Details
==========
H2OStackedEnsembleEstimator : Stacked Ensemble
Model Key: StackedEnsemble_BestOfFamily_AutoML_20201106_165124
No model summary for this model
ModelMetricsRegressionGLM: stackedensemble
** Reported on train data. **
MSE: 0.0004510473065179401
RMSE: 0.021237874340854834
MAE: 0.015698953122640844
RMSLE: 0.01566924526661779
R^2: 0.9506142161811517
Mean Residual Deviance: 0.0004510473065179401
Null degrees of freedom: 1410
Residual degrees of freedom: 1405
Null deviance: 12.886861365434634
Residual deviance: 0.6364277494968135
AIC: -6852.012444988525
ModelMetricsRegressionGLM: stackedensemble
** Reported on validation data. **
MSE: 0.005082789650100271
RMSE: 0.07129368590625 87
MAE: 0.04682753311328295
RMSLE: 0.05254144757735619
R^2: 0.4297775070531525 4
Mean Residual Deviance: 0.005082789650100271
Null degrees of freedom: 343
Residual degrees of freedom: 338
Null deviance: 3.0695892188637877
Residual deviance: 1.7484796396344933
AIC: -826.7421775472221
ModelMetricsRegressionGLM: stackedensemble
** Reported on cross-validation data. **
MSE: 0.004636681620800637
RMSE: 0.06809318336515512
MAE: 0.045793833830917 32
RMSLE: 0.04062414330919974
Mode: Command
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Mall_footfall_prediction_skeleton.ipynb
Python 3 | Idle
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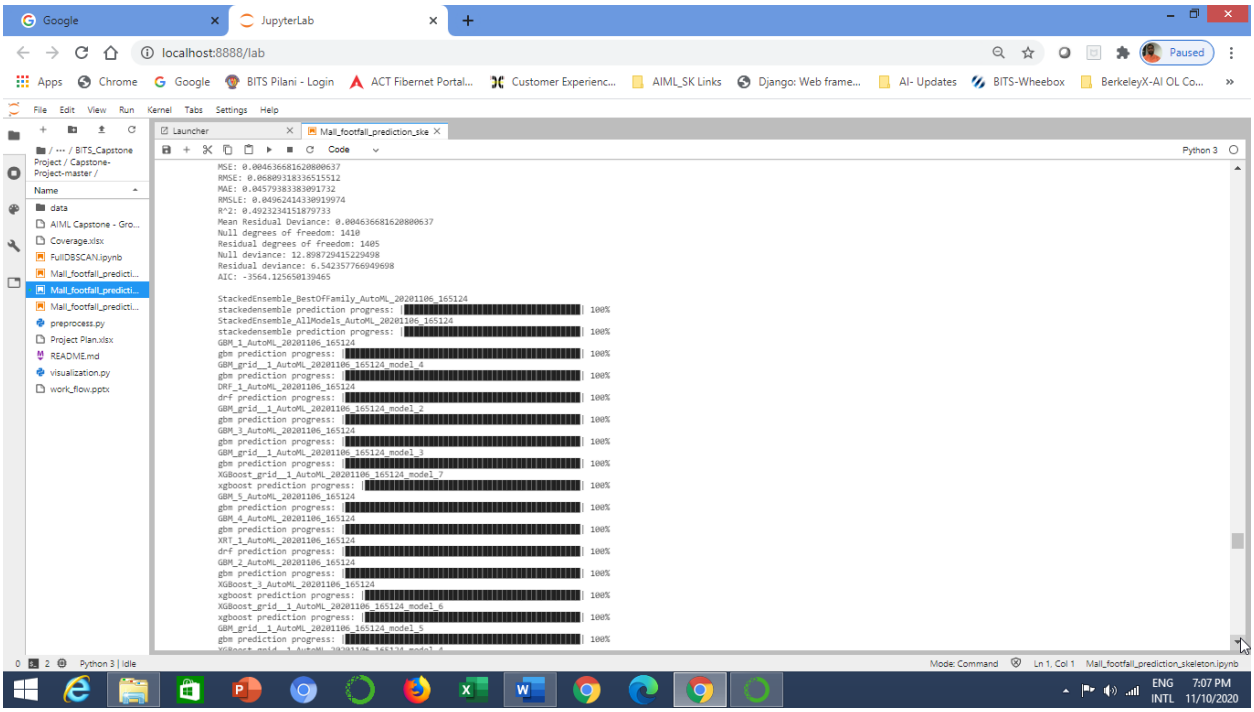
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MSE: 0.004636681620800637
RMSE: 0.06809318336515512
MAE: 0.045793833830917 32
RMSLE: 0.04062414330919974
R^2: 0.4923234151879733
Mean Residual Deviance: 0.004636681620800637
Null degrees of freedom: 1410
Residual degrees of freedom: 1405
Null deviance: 12.898720415229498
Residual deviance: 6.542357766949698
AIC: -3564.125650139465
StackedEnsemble_BestOfFamily_AutoML_20201106_165124
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StackedEnsemble_AllModels_AutoML_20201106_165124
stackedensemble prediction progress: 100%
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gbm prediction progress: 100%
GBM_4_AutoML_20201106_165124
gbm prediction progress: 100%
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drf prediction progress: 100%
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gbm prediction progress: 100%
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xgboost prediction progress: 100%
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GBM_grid__1_AutoML_20201106_165124_model_5
gbm prediction progress: 100%
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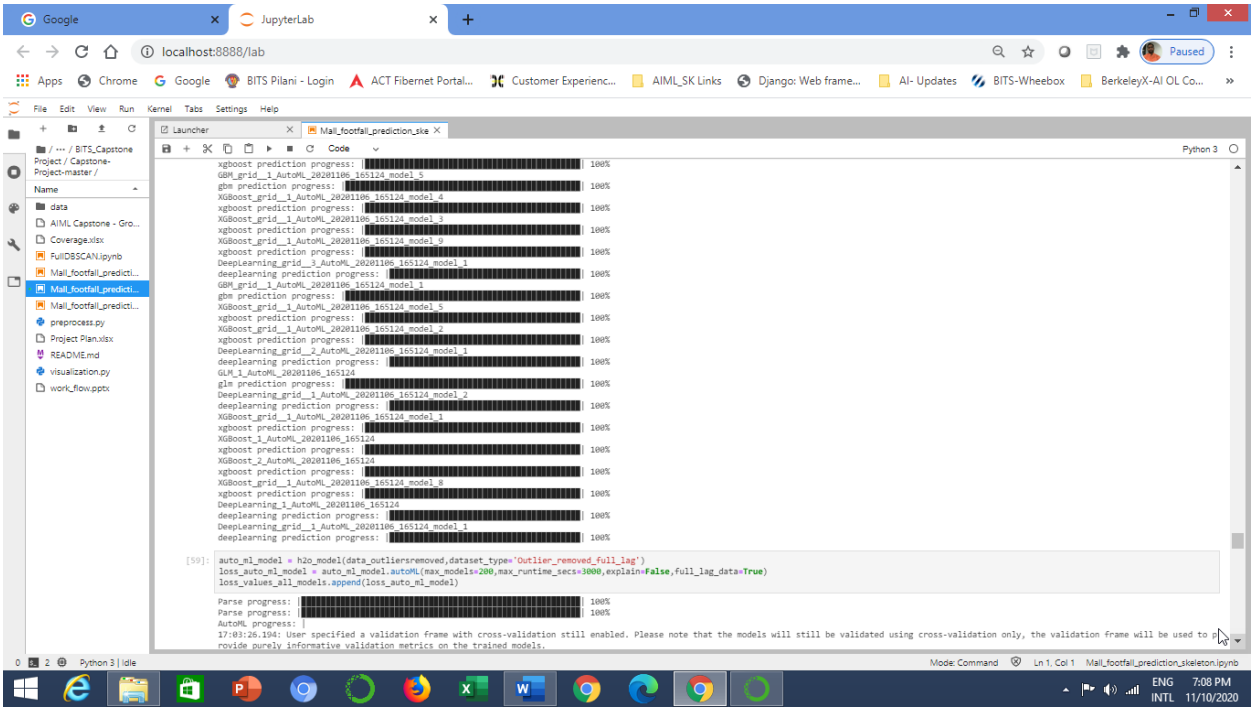
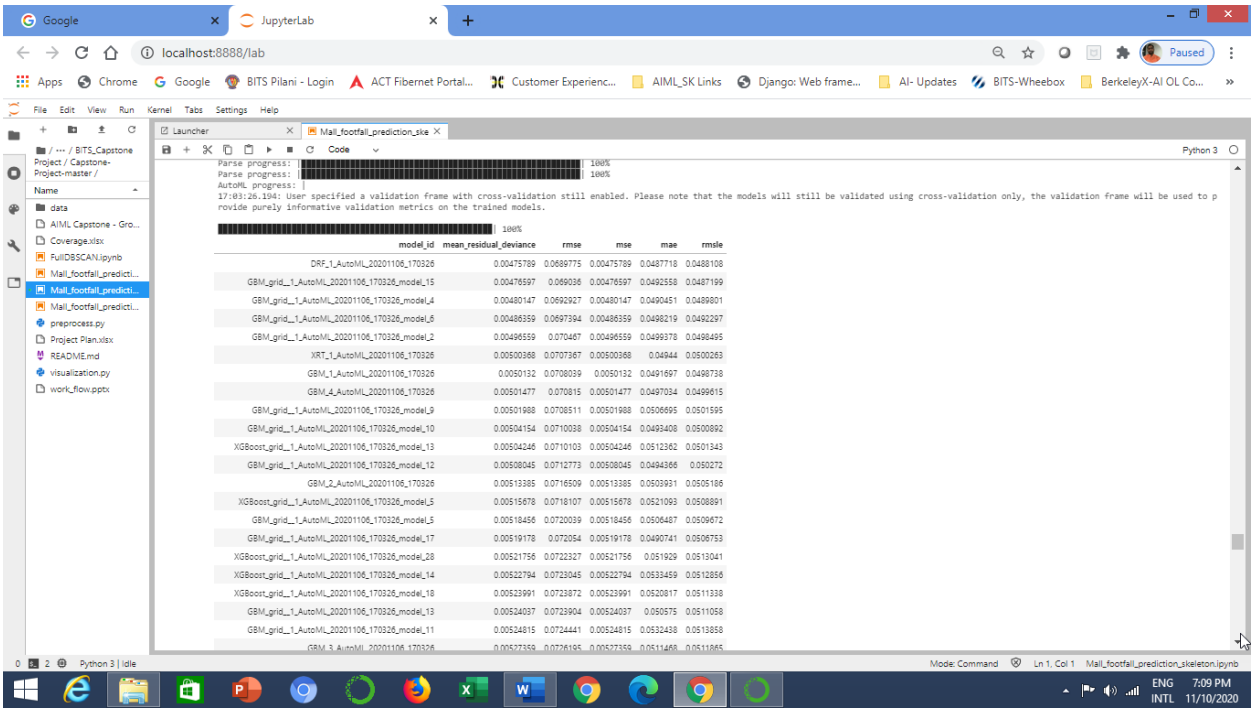
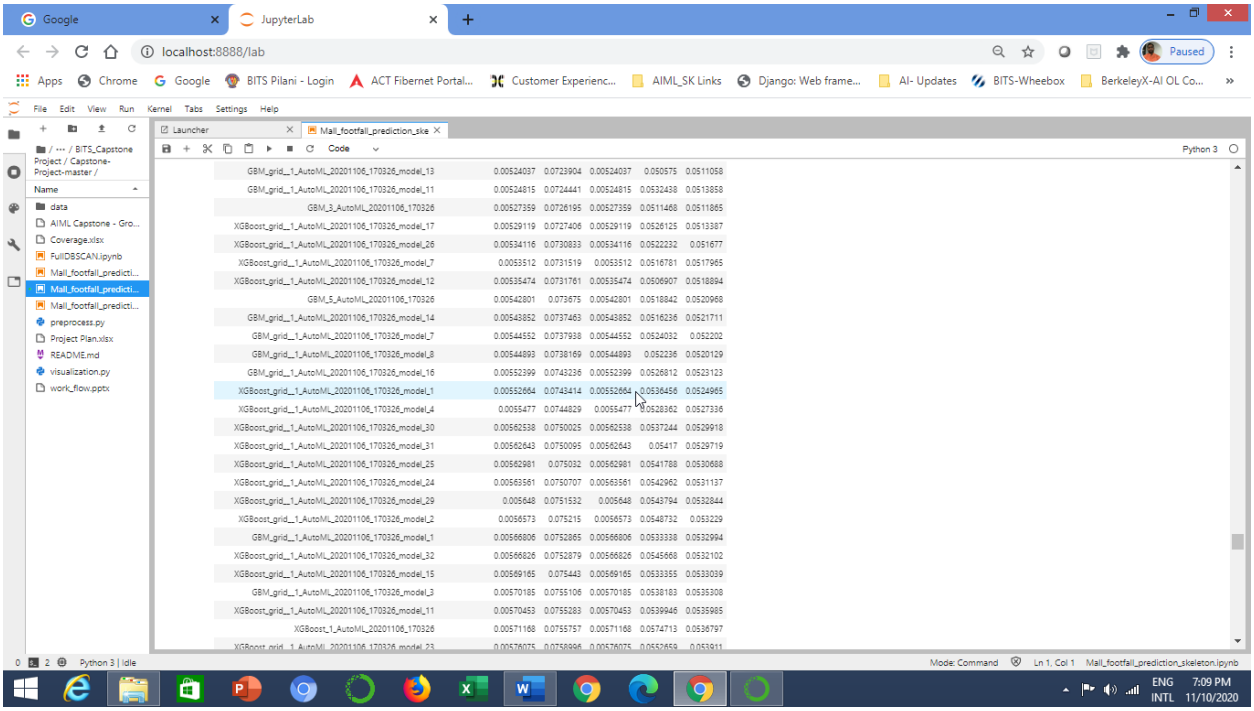




model_id	mean_residual_deviance	rmse	mse	mae	rmsle
DRF_1_AutoML_20201106_170326	0.00475789	0.0689775	0.00475789	0.0487718	0.0488108
GBM_grid__1_AutoML_20201106_170326_model_15	0.00476597	0.069036	0.00476597	0.0492558	0.0487199
GBM_grid__1_AutoML_20201106_170326_model_4	0.00480147	0.0692927	0.00480147	0.0490451	0.0489801
GBM_grid__1_AutoML_20201106_170326_model_6	0.00486359	0.0697394	0.00486359	0.0498219	0.0492297
GBM_grid__1_AutoML_20201106_170326_model_2	0.00496559	0.070467	0.00496559	0.0499378	0.0498495
XRT_1_AutoML_20201106_170326	0.00500368	0.0707367	0.00500368	0.04944	0.0500263
GBM_1_AutoML_20201106_170326	0.0050132	0.0708039	0.0050132	0.0491697	0.0498738
GBM_4_AutoML_20201106_170326	0.00501477	0.070815	0.00501477	0.0497034	0.0499615
GBM_grid__1_AutoML_20201106_170326_model_9	0.00501988	0.0708511	0.00501988	0.0506695	0.0501595
GBM_grid__1_AutoML_20201106_170326_model_10	0.00504154	0.0710038	0.00504154	0.0493408	0.0500892
XGBoost_grid__1_AutoML_20201106_170326_model_13	0.00504246	0.0710103	0.00504246	0.0512362	0.0501343
GBM_grid__1_AutoML_20201106_170326_model_12	0.00508045	0.0712773	0.00508045	0.0494366	0.050272
GBM_2_AutoML_20201106_170326	0.00513385	0.0716509	0.00513385	0.0503931	0.0505186
XGBoost_grid__1_AutoML_20201106_170326_model_5	0.00515678	0.0718107	0.00515678	0.0521093	0.0508891
GBM_grid__1_AutoML_20201106_170326_model_5	0.00518456	0.0720039	0.00518456	0.0506487	0.0509672
GBM_grid__1_AutoML_20201106_170326_model_17	0.00519178	0.072054	0.00519178	0.0490741	0.0506753
XGBoost_grid__1_AutoML_20201106_170326_model_28	0.00521756	0.0722327	0.00521756	0.051929	0.0513041
XGBoost_grid__1_AutoML_20201106_170326_model_14	0.00522794	0.0723045	0.00522794	0.0533459	0.0512856
XGBoost_grid__1_AutoML_20201106_170326_model_18	0.00523991	0.0723872	0.00523991	0.0520817	0.0511338
GBM_grid__1_AutoML_20201106_170326_model_13	0.00524037	0.0723904	0.00524037	0.050575	0.0511058
GBM_grid__1_AutoML_20201106_170326_model_11	0.00524815	0.0724441	0.00524815	0.0532438	0.0513858
GBM_3_AutoML_20201106_170326	0.00527359	0.0726195	0.00527359	0.0511468	0.0511865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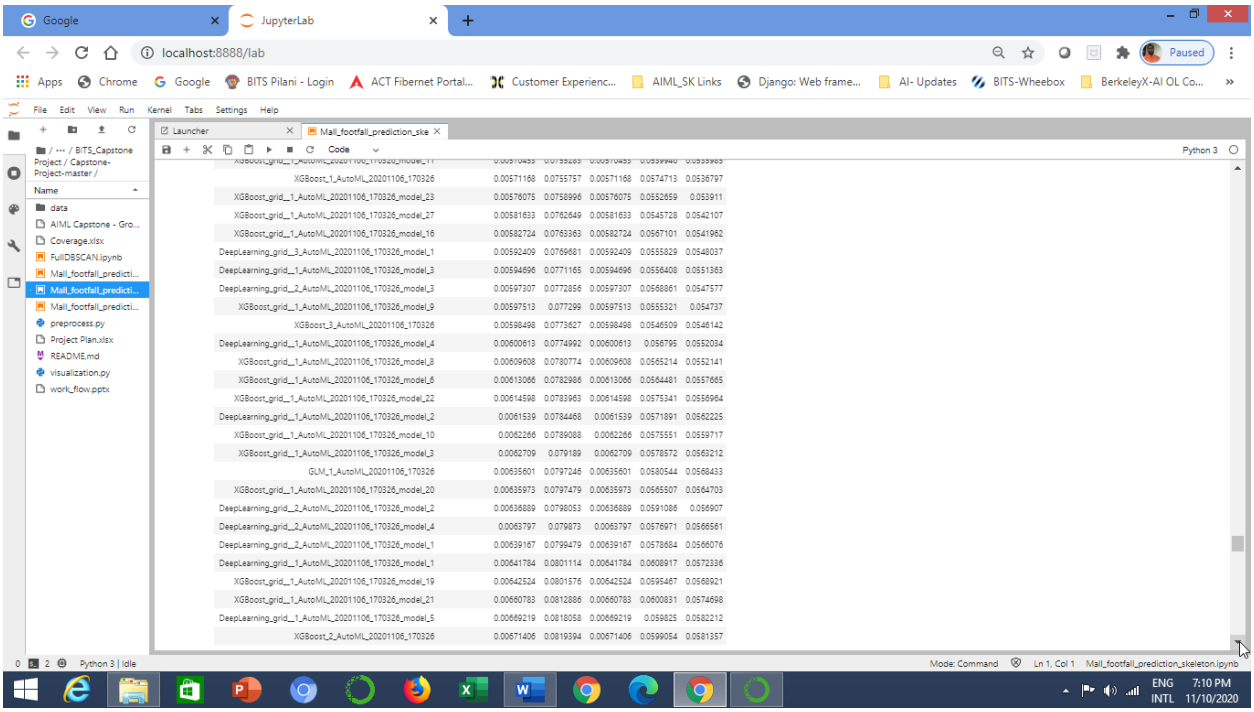
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XGBoost_2_AutoML_20201106_170326 0.00671406 0.0819394 0.00671406 0.0599054 0.0581357
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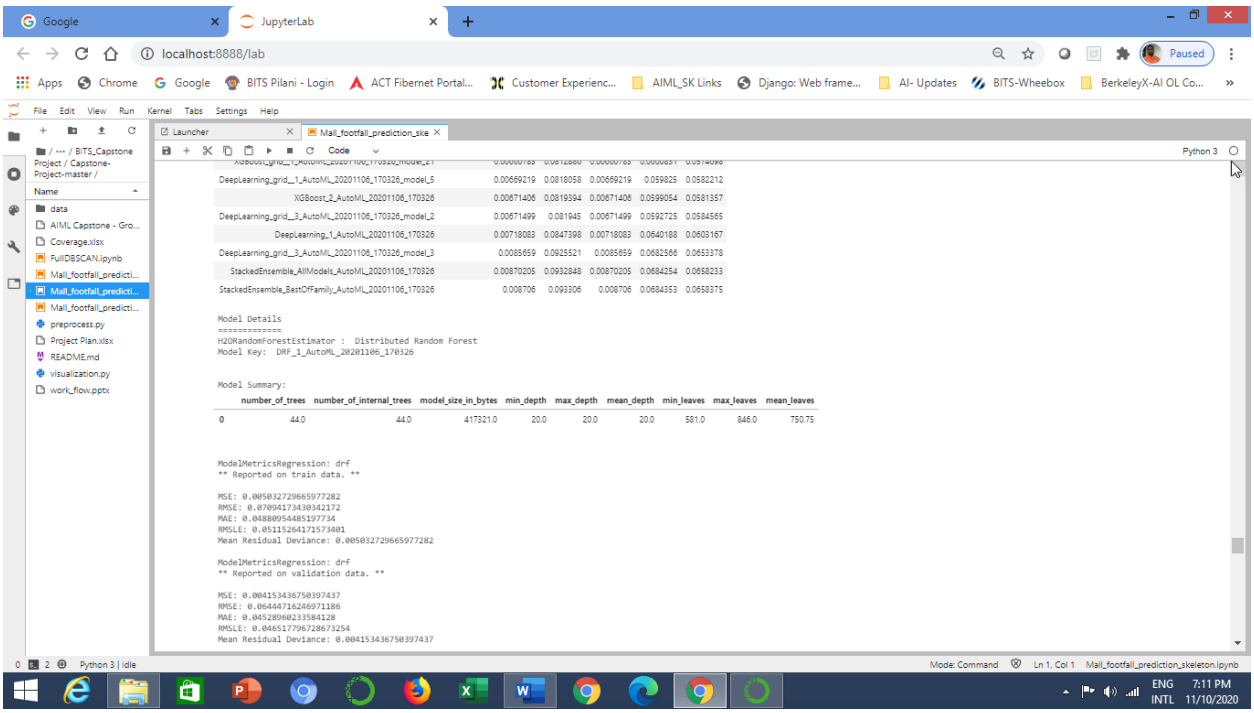

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DeepLearning_grid_3_AutoML_20201106_170326_model_2	0.00671499	0.081945	0.00671499	0.0592725	0.0584565
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DeepLearning_grid_3_AutoML_20201106_170326_model_3	0.0085659	0.0925521	0.0085659	0.0682566	0.0653378
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StackedEnsemble_BestOfFamily_AutoML_20201106_170326	0.008706	0.093306	0.008706	0.0684353	0.0658375

```
Model Details
=============
H2ORandomForestEstimator :  Distributed Random Forest
Model Key:  DRF_1_AutoML_20201106_170326
```

Model Summary:

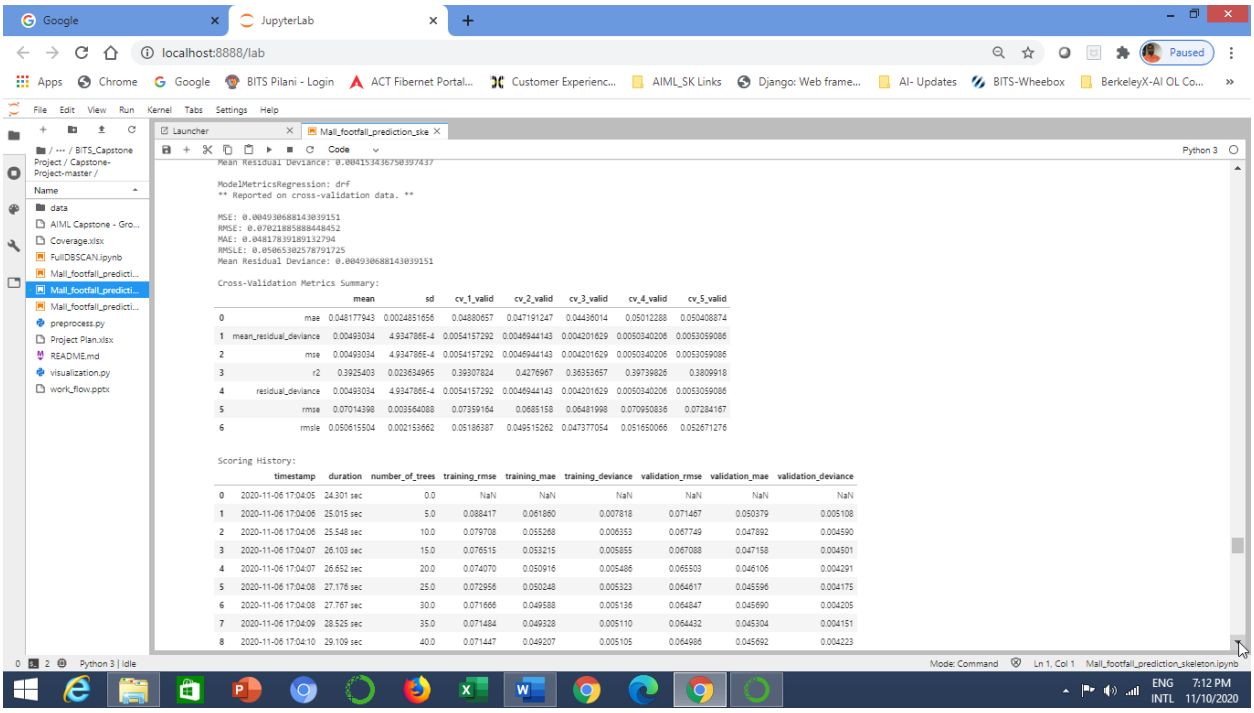
	number_of_trees	number_of_internal_trees	model_size_in_bytes	min_depth	max_depth	mean_depth	min_leaves	max_leaves	mean_leaves
0	44.0	44.0	417321.0	20.0	20.0	20.0	581.0	846.0	750.75

```
ModelMetricsRegression: drf
** Reported on train data. **

MSE: 0.005032729665977282
RMSE: 0.07094173430342172
MAE: 0.04888954485197734
RMSLE: 0.05115264171573401
Mean Residual Deviance: 0.005032729665977282

ModelMetricsRegression: drf
** Reported on validation data. **

MSE: 0.004153436750397437
RMSE: 0.06444716246971186
MAE: 0.04528960233584128
RMSLE: 0.04651779728673254
Mean Residual Deviance: 0.004153436750397437
```



```
Mean Residual Deviance: 0.004153436750397437

ModelMetricsRegression: drf
** Reported on cross-validation data. **

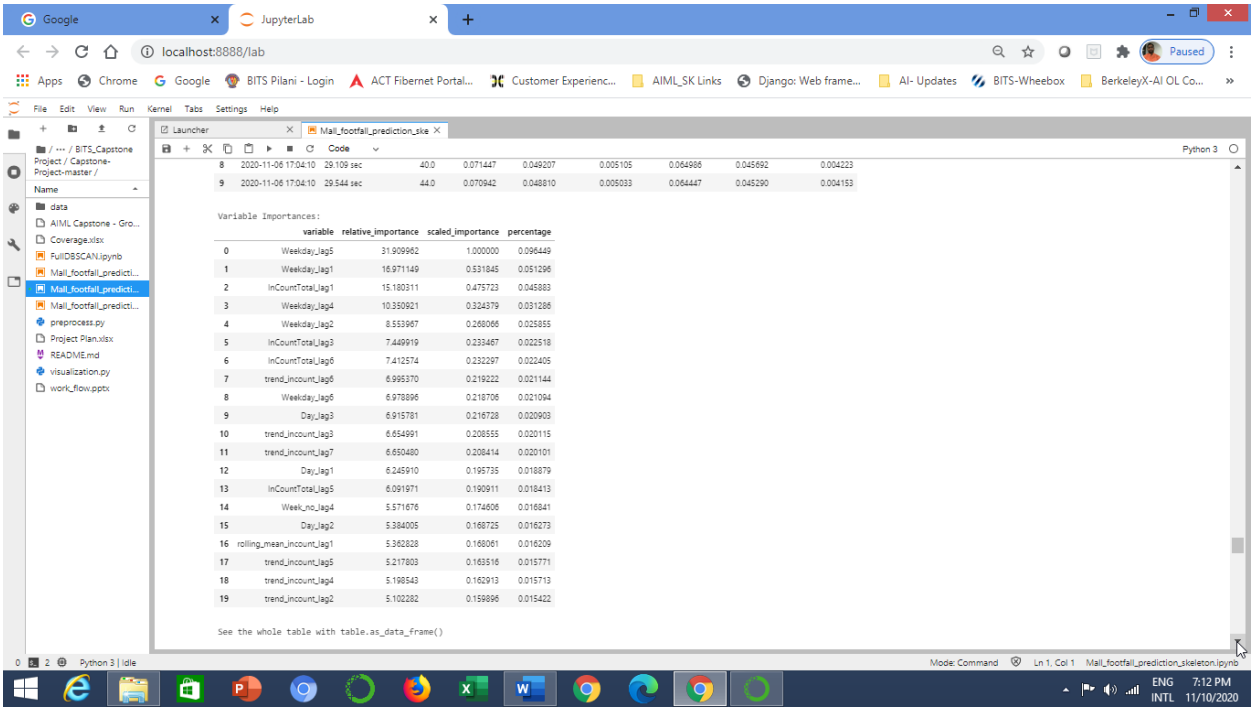
MSE: 0.004930688143039151
RMSE: 0.07021885888448452
MAE: 0.04817891891132794
RMSLE: 0.05065302578791725
Mean Residual Deviance: 0.004930688143039151
```

Cross-Validation Metrics Summary:

	mean	sd	cv_1_valid	cv_2_valid	cv_3_valid	cv_4_valid	cv_5_valid
0	mae	0.048177943	0.0024851656	0.04880657	0.047191247	0.04436014	0.05012288	0.050408874
1	mean_residual_deviance	0.00493034	4.934786E-4	0.0054157292	0.0046944143	0.004201629	0.0050340206	0.0053059086
2	mse	0.00493034	4.934786E-4	0.0054157292	0.0046944143	0.004201629	0.0050340206	0.0053059086
3	r2	0.3925403	0.023634965	0.39307824	0.4276967	0.36353657	0.39739826	0.3809918
4	residual_deviance	0.00493034	4.934786E-4	0.0054157292	0.0046944143	0.004201629	0.0050340206	0.0053059086
5	rmse	0.07014398	0.003564088	0.07359164	0.0685158	0.06481998	0.070950836	0.07284167
6	rmsle	0.050615504	0.002153662	0.05186387	0.049515262	0.047377054	0.051650066	0.052671276

Scoring History:

	timestamp	duration	number_of_trees	training_rmse	training_mae	training_deviance	validation_rmse	validation_mae	validation_deviance
0	2020-11-06 17:04:05	24.301 sec	0.0	NaN	NaN	NaN	NaN	NaN	NaN
1	2020-11-06 17:04:06	25.015 sec	5.0	0.088417	0.061860	0.007818	0.071467	0.050379	0.005108
2	2020-11-06 17:04:06	25.548 sec	10.0	0.079708	0.055268	0.006353	0.067749	0.047892	0.004590
3	2020-11-06 17:04:07	26.103 sec	15.0	0.076515	0.053215	0.005855	0.067088	0.047158	0.004501
4	2020-11-06 17:04:07	26.652 sec	20.0	0.074070	0.050916	0.005486	0.065503	0.046106	0.004291
5	2020-11-06 17:04:08	27.176 sec	25.0	0.072956	0.050248	0.005323	0.064617	0.045596	0.004175
6	2020-11-06 17:04:08	27.767 sec	30.0	0.071666	0.049588	0.005136	0.064847	0.045690	0.004205
7	2020-11-06 17:04:09	28.525 sec	35.0	0.071484	0.049328	0.005110	0.064432	0.045304	0.004151
8	2020-11-06 17:04:10	29.109 sec	40.0	0.071447	0.049207	0.005105	0.064986	0.045692	0.004223

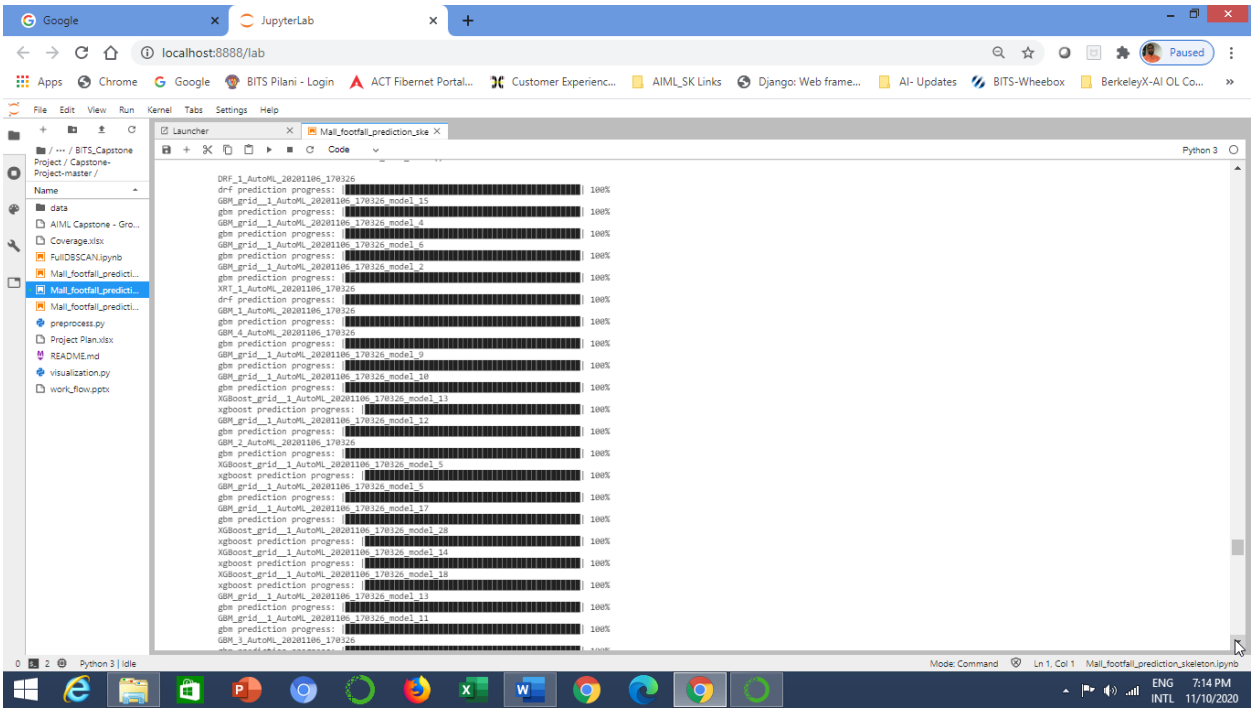


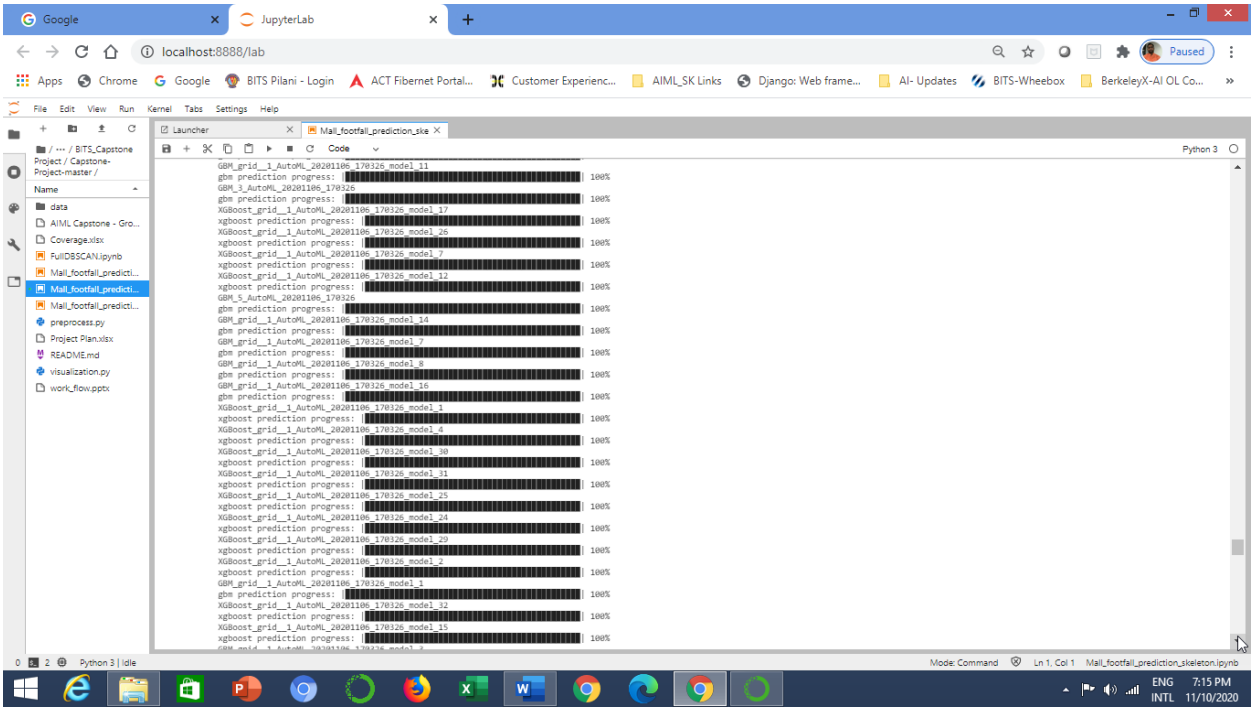
8	2020-11-06 17:04:10	29.109 sec	40.0	0.071447	0.049207	0.005105	0.064986	0.045692	0.004223
9	2020-11-06 17:04:10	29.544 sec	44.0	0.070942	0.048810	0.005033	0.064447	0.045290	0.004153

Variable Importances:

	variable	relative_importance	scaled_importance	percentage
0	Weekday_lag5	31.909962	1.000000	0.096449
1	Weekday_lag1	16.971149	0.531845	0.051296
2	lnCountTotal_lag1	15.180311	0.475723	0.045883
3	Weekday_lag4	10.350921	0.324379	0.031286
4	Weekday_lag2	8.553967	0.268066	0.025855
5	lnCountTotal_lag3	7.449919	0.233467	0.022518
6	lnCountTotal_lag6	7.412574	0.232297	0.022405
7	trend_lncount_lag6	6.995370	0.219222	0.021144
8	Weekday_lag6	6.978896	0.218706	0.021094
9	Day_lag3	6.915781	0.216728	0.020903
10	trend_lncount_lag3	6.654991	0.208555	0.020115
11	trend_lncount_lag7	6.650480	0.208414	0.020101
12	Day_lag1	6.245910	0.195735	0.018879
13	lnCountTotal_lag5	6.091971	0.190911	0.018413
14	Week_no_lag4	5.571676	0.174606	0.016841
15	Day_lag2	5.384005	0.168725	0.016273
16	rolling_mean_lncount_lag1	5.362828	0.168061	0.016209
17	trend_lncount_lag5	5.217803	0.163516	0.015771
18	trend_lncount_lag4	5.198543	0.162913	0.015713
19	trend_lncount_lag2	5.102282	0.159896	0.015422

See the whole table with table.as_data_frame()

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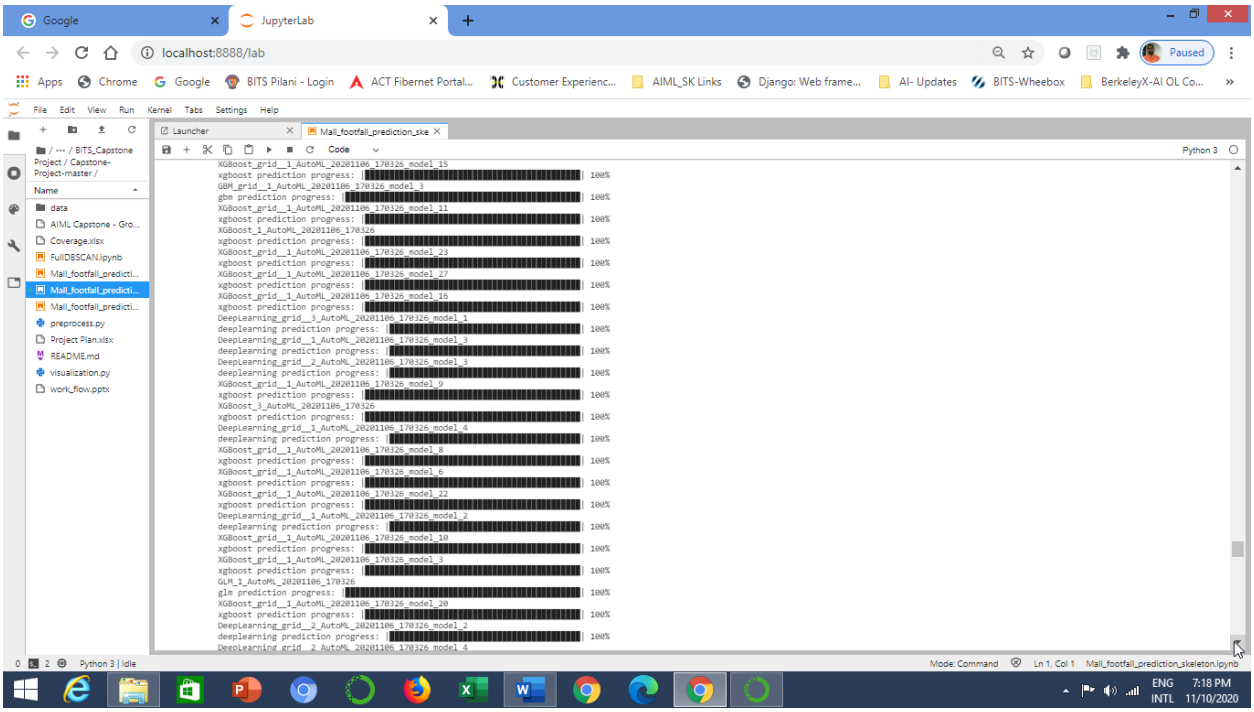
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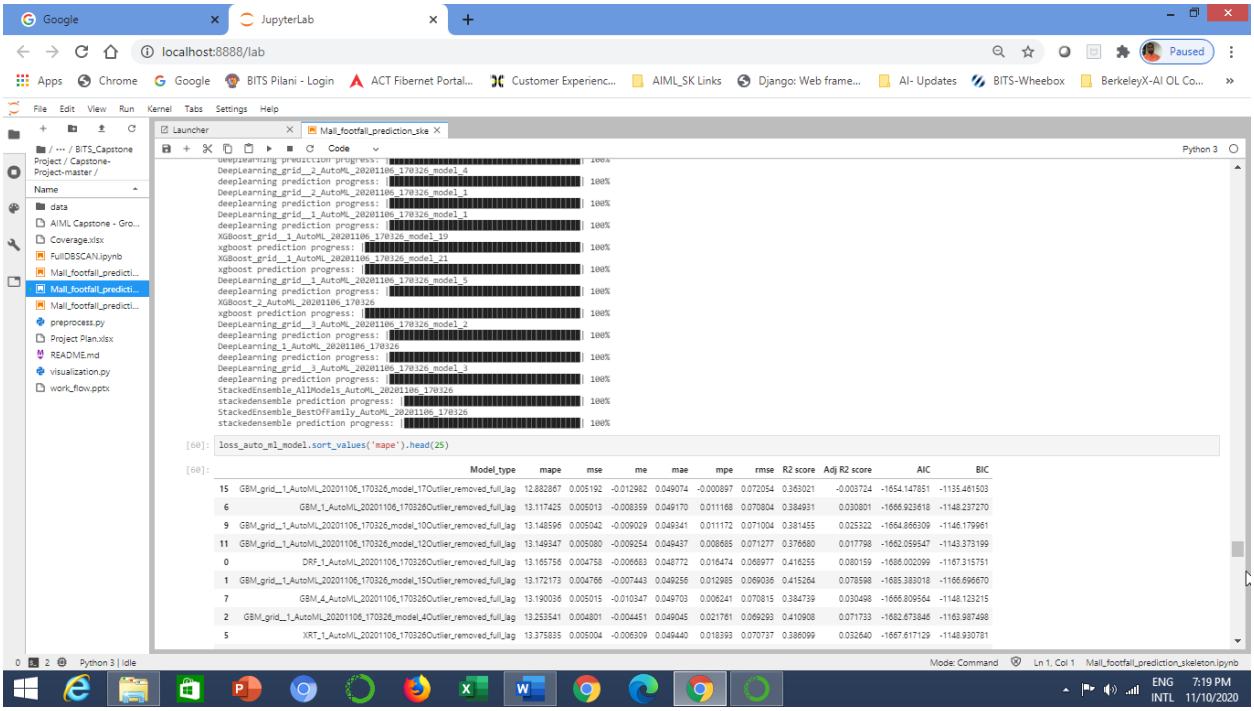
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15 GBM_grid__1_AutoML_20201106_170326_model_17Outlier_removed_full_lag 12.882867 0.005192 -0.012982 0.049074 -0.000897 0.072054 0.363021 -0.003724 -1654.147851 -1135.461503
6 GBM_1_AutoML_20201106_170326Outlier_removed_full_lag 13.117425 0.005013 -0.008359 0.049170 0.011168 0.070804 0.384931 0.030801 -1666.923618 -1148.237270
9 GBM_grid__1_AutoML_20201106_170326_model_10Outlier_removed_full_lag 13.148596 0.005042 -0.009029 0.049341 0.011172 0.071004 0.381455 0.025322 -1664.866309 -1146.179961
11 GBM_grid__1_AutoML_20201106_170326_model_12Outlier_removed_full_lag 13.149347 0.005080 -0.009254 0.049437 0.008685 0.071277 0.376680 0.017798 -1662.059547 -1143.373199
0 DRF_1_AutoML_20201106_170326Outlier_removed_full_lag 13.165756 0.004758 -0.006683 0.048772 0.016474 0.068977 0.416255 0.080159 -1686.002099 -1167.315751
1 GBM_grid__1_AutoML_20201106_170326_model_15Outlier_removed_full_lag 13.172173 0.004766 -0.007443 0.049256 0.012985 0.069036 0.415264 0.078598 -1685.383018 -1166.696670
7 GBM_4_AutoML_20201106_170326Outlier_removed_full_lag 13.190036 0.005015 -0.010347 0.049703 0.006241 0.070815 0.384739 0.030498 -1666.809564 -1148.123215
2 GBM_grid__1_AutoML_20201106_170326_model_4Outlier_removed_full_lag 13.253541 0.004801 -0.004451 0.049045 0.021761 0.069293 0.410908 0.071733 -1682.673846 -1163.987498
5 XRT_1_AutoML_20201106_170326Outlier_removed_full_lag 13.375835 0.005004 -0.006309 0.049440 0.018393 0.070737 0.386099 0.032640 -1667.617129 -1148.930781
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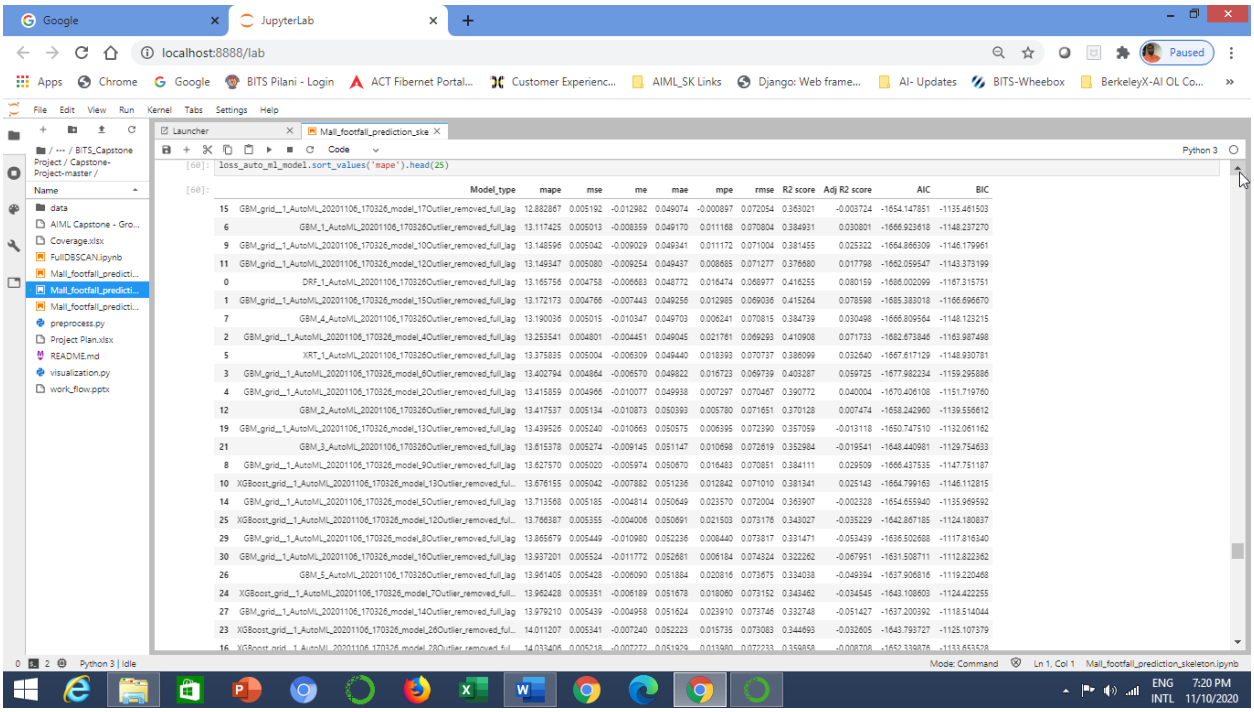
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26 GBM_5_AutoML_20201106_170326Outlier_removed_full_lag 13.961405 0.005428 -0.006090 0.051884 0.020816 0.073675 0.334038 -0.049394 -1637.906816 -1119.220468
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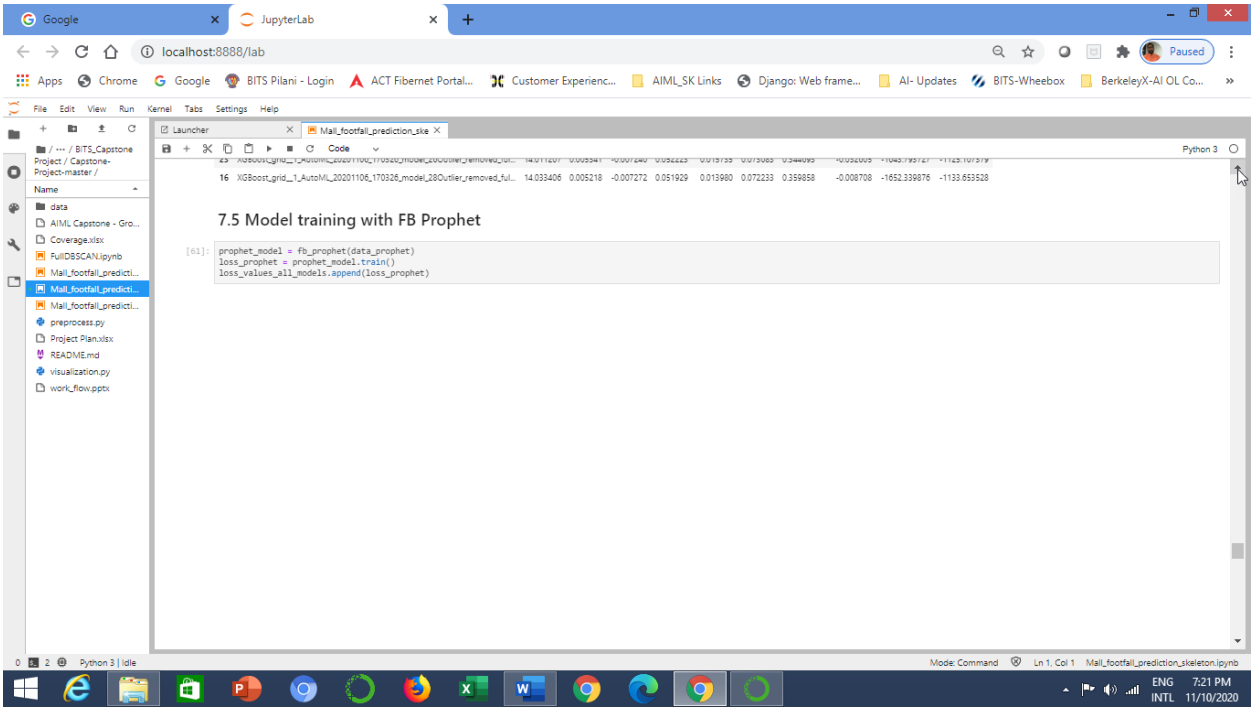
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7.5 Model training with FB Prophet
[61]:
prophet_model = fb_prophet(data_prophet)
loss_prophet = prophet_model.train()
loss_values_all_models.append(loss_prophet)
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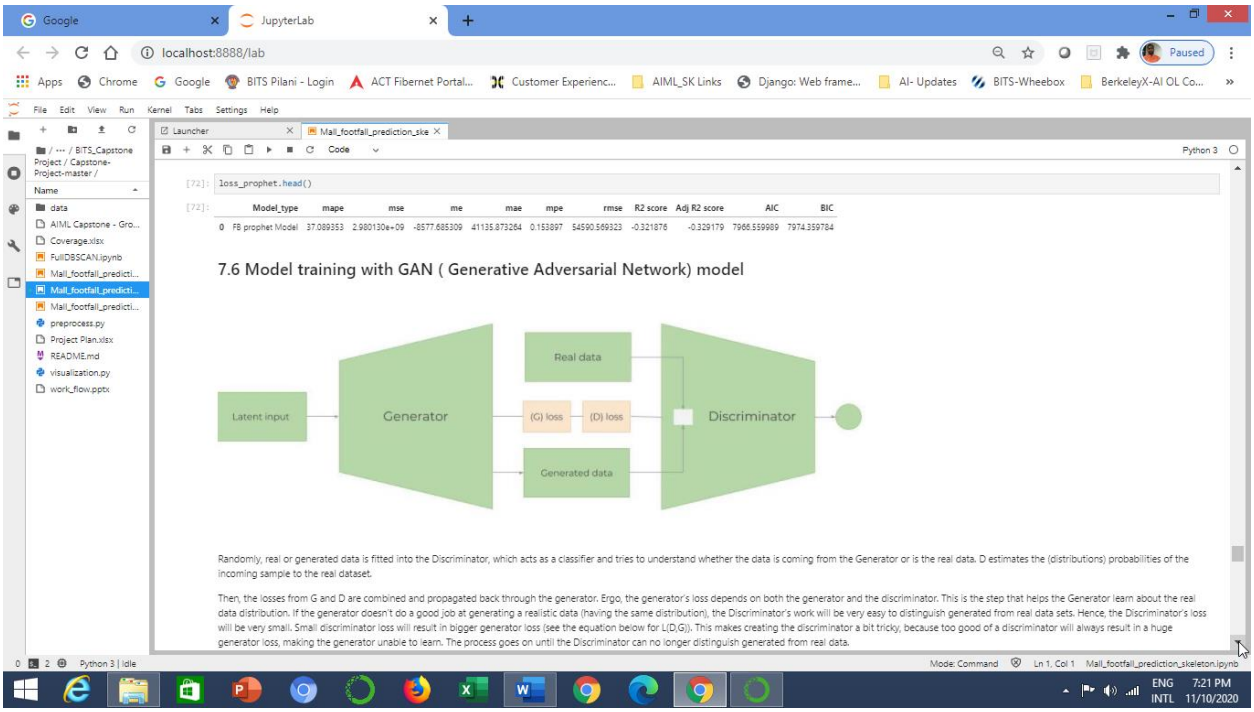
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loss_prophet.head()
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0 FB prophet Model 37.089353 2.980130e+09 -8577.685309 41135.873264 0.153897 54590.569323 -0.321876 -0.329179 7966.559989 7974.359784
7.6 Model training with GAN (Generative Adversarial Network) model
Latent input
Generator
Real data
(G) loss
(D) loss
Discriminator
Generated data
Randomly, real or generated data is fitted into the Discriminator, which acts as a classifier and tries to understand whether the data is coming from the Generator or is the real data. D estimates the (distributions) probabilities of the incoming sample to the real dataset.
Then, the losses from G and D are combined and propagated back through the generator. Ergo, the generator's loss depends on both the generator and the discriminator. This is the step that helps the Generator learn about the real data distribution. If the generator doesn't do a good job at generating a realistic data (having the same distribution), the Discriminator's work will be very easy to distinguish generated from real data sets. Hence, the Discriminator's loss will be very small. Small discriminator loss will result in bigger generator loss (see the equation below for L(D,G)). This makes creating the discriminator a bit tricky, because too good of a discriminator will always result in a huge generator loss, making the generator unable to learn. The process goes on until the Discriminator can no longer distinguish generated from real data.
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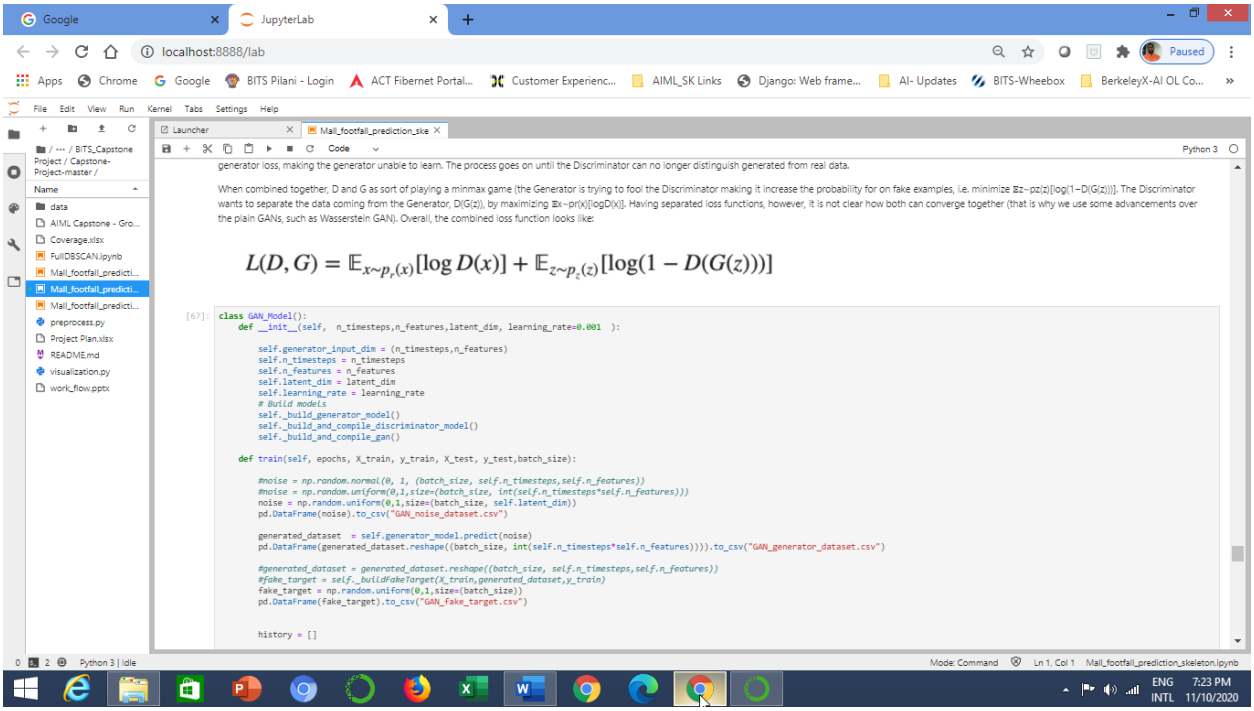


generator loss, making the generator unable to learn. The process goes on until the Discriminator can no longer distinguish generated from real data.

When combined together, D and G as sort of playing a minmax game (the Generator is trying to fool the Discriminator making it increase the probability for on fake examples, i.e. minimize $\mathbb{E}_{z\sim p_z(z)}[\log(1-D(G(z)))]$. The Discriminator wants to separate the data coming from the Generator, D(G(z)), by maximizing $\mathbb{E}_{x\sim p(x)}[\log D(x)]$. Having separated loss functions, however, it is not clear how both can converge together (that is why we use some advancements over the plain GANs, such as Wasserstein GAN). Overall, the combined loss function looks like:

$$L(D,G) = \mathbb{E}_{x\sim p_r(x)}[\log D(x)] + \mathbb{E}_{z\sim p_z(z)}[\log(1 - D(G(z)))]$$

[67]:
```
class GAN_Model():
    def __init__(self,  n_timesteps,n_features,latent_dim, learning_rate=0.001  ):

        self.generator_input_dim = (n_timesteps,n_features)
        self.n_timesteps = n_timesteps
        self.n_features = n_features
        self.latent_dim = latent_dim
        self.learning_rate = learning_rate
        # Build models
        self._build_generator_model()
        self._build_and_compile_discriminator_model()
        self._build_and_compile_gan()

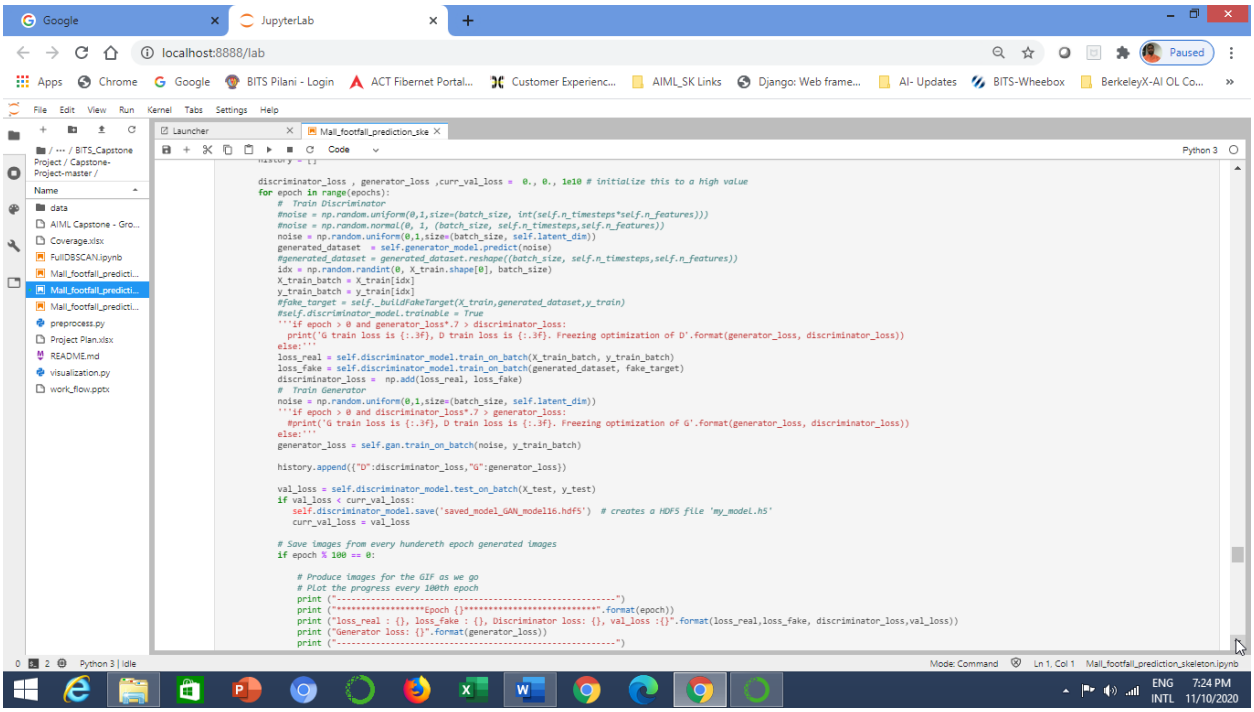
    def train(self, epochs, X_train, y_train, X_test, y_test,batch_size):

        #noise = np.random.normal(0, 1, (batch_size, self.n_timesteps,self.n_features))
        #noise = np.random.uniform(0,1,size=(batch_size, int(self.n_timesteps*self.n_features)))
        noise = np.random.uniform(0,1,size=(batch_size, self.latent_dim))
        pd.DataFrame(noise).to_csv("GAN_noise_dataset.csv")

        generated_dataset  = self.generator_model.predict(noise)
        pd.DataFrame(generated_dataset.reshape((batch_size, int(self.n_timesteps*self.n_features)))).to_csv("GAN_generator_dataset.csv")

        #generated_dataset = generated_dataset.reshape((batch_size, self.n_timesteps,self.n_features))
        #fake_target = self._buildFakeTarget(X_train,generated_dataset,y_train)
        fake_target = np.random.uniform(0,1,size=(batch_size))
        pd.DataFrame(fake_target).to_csv("GAN_fake_target.csv")


        history = []
```



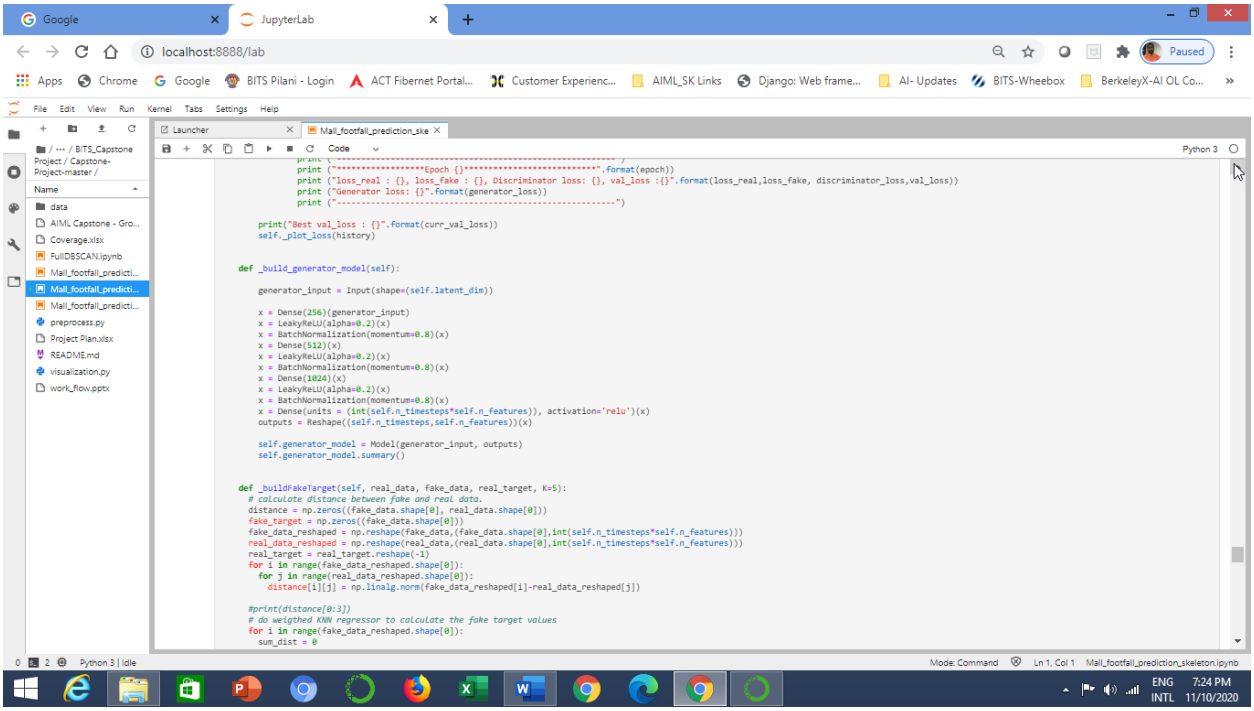
```
        discriminator_loss , generator_loss ,curr_val_loss =  0., 0., 1e10 # initialize this to a high value
        for epoch in range(epochs):
            #  Train Discriminator
            #noise = np.random.uniform(0,1,size=(batch_size, int(self.n_timesteps*self.n_features)))
            #noise = np.random.normal(0, 1, (batch_size, self.n_timesteps,self.n_features))
            noise = np.random.uniform(0,1,size=(batch_size, self.latent_dim))
            generated_dataset  = self.generator_model.predict(noise)
            #generated_dataset = generated_dataset.reshape((batch_size, self.n_timesteps,self.n_features))
            idx = np.random.randint(0, X_train.shape[0], batch_size)
            X_train_batch = X_train[idx]
            y_train_batch = y_train[idx]
            #fake_target = self._buildFakeTarget(X_train,generated_dataset,y_train)
            #self.discriminator_model.trainable = True
            '''if epoch > 0 and generator_loss*.7 > discriminator_loss:
                print('G train loss is {:.3f}, D train loss is {:.3f}. Freezing optimization of D'.format(generator_loss, discriminator_loss))
            else:'''
            loss_real = self.discriminator_model.train_on_batch(X_train_batch, y_train_batch)
            loss_fake = self.discriminator_model.train_on_batch(generated_dataset, fake_target)
            discriminator_loss =  np.add(loss_real, loss_fake)
            #  Train Generator
            noise = np.random.uniform(0,1,size=(batch_size, self.latent_dim))
            '''if epoch > 0 and discriminator_loss*.7 > generator_loss:
              #print('G train loss is {:.3f}, D train loss is {:.3f}. Freezing optimization of G'.format(generator_loss, discriminator_loss))
            else:'''
            generator_loss = self.gan.train_on_batch(noise, y_train_batch)

            history.append({"D":discriminator_loss,"G":generator_loss})

            val_loss = self.discriminator_model.test_on_batch(X_test, y_test)
            if val_loss < curr_val_loss:
               self.discriminator_model.save('saved_model_GAN_model16.hdf5')  # creates a HDF5 file 'my_model.h5'
               curr_val_loss = val_loss

            # Save images from every hundereth epoch generated images
            if epoch % 100 == 0:

                # Produce images for the GIF as we go
                # Plot the progress every 100th epoch
                print ("-----------------------------------------------------------")
                print ("*****************Epoch {}************************".format(epoch))
                print ("loss_real : {}, loss_fake : {}, Discriminator loss: {}, val_loss :{}".format(loss_real,loss_fake, discriminator_loss,val_loss))
                print ("Generator loss: {}".format(generator_loss))
                print ("-----------------------------------------------------------")
```



```
                print ("*****************Epoch {}*************************".format(epoch))
                print ("loss_real : {}, loss_fake : {}, Discriminator loss: {}, val_loss :{}".format(loss_real,loss_fake, discriminator_loss,val_loss))
                print ("Generator loss: {}".format(generator_loss))
                print ("------------------------------------------------------------")

        print("Best val_loss : {}".format(curr_val_loss))
        self._plot_loss(history)


    def _build_generator_model(self):

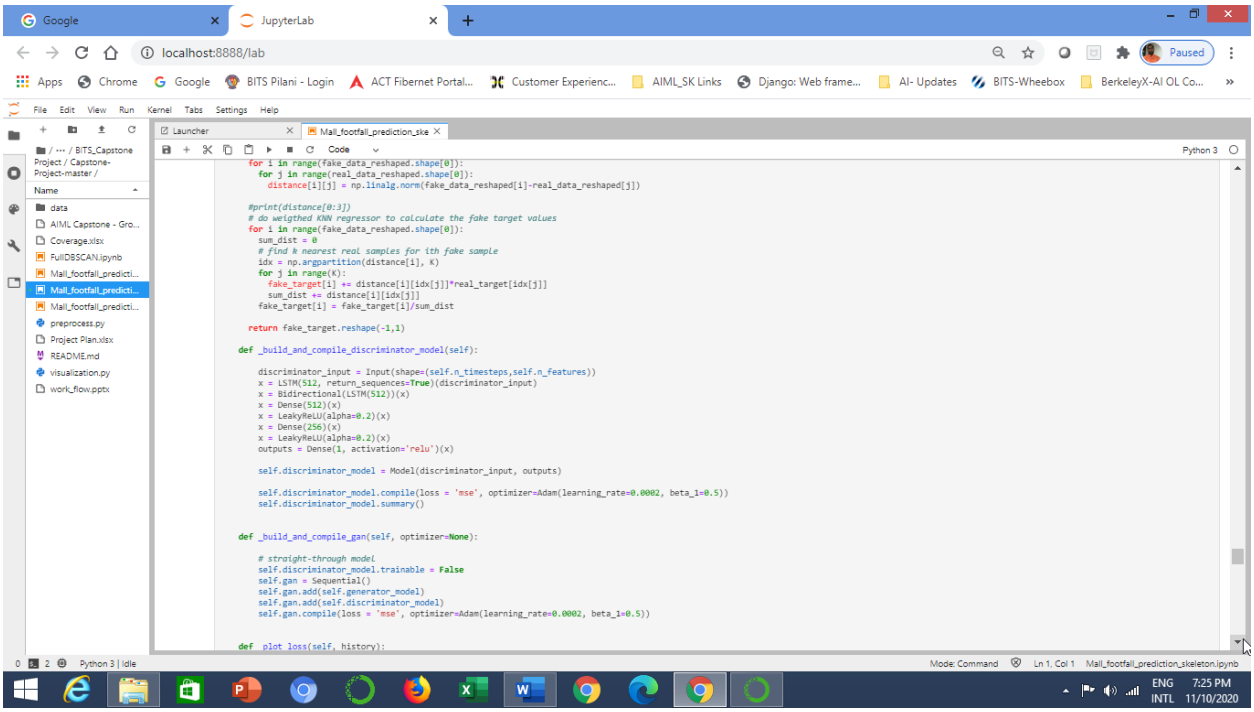
        generator_input = Input(shape=(self.latent_dim))

        x = Dense(256)(generator_input)
        x = LeakyReLU(alpha=0.2)(x)
        x = BatchNormalization(momentum=0.8)(x)
        x = Dense(512)(x)
        x = LeakyReLU(alpha=0.2)(x)
        x = BatchNormalization(momentum=0.8)(x)
        x = Dense(1024)(x)
        x = LeakyReLU(alpha=0.2)(x)
        x = BatchNormalization(momentum=0.8)(x)
        x = Dense(units = (int(self.n_timesteps*self.n_features)), activation='relu')(x)
        outputs = Reshape((self.n_timesteps,self.n_features))(x)

        self.generator_model = Model(generator_input, outputs)
        self.generator_model.summary()


    def _buildFakeTarget(self, real_data, fake_data, real_target, K=5):
      # calculate distance between fake and real data.
      distance = np.zeros((fake_data.shape[0], real_data.shape[0]))
      fake_target = np.zeros((fake_data.shape[0]))
      fake_data_reshaped = np.reshape(fake_data,(fake_data.shape[0],int(self.n_timesteps*self.n_features)))
      real_data_reshaped = np.reshape(real_data,(real_data.shape[0],int(self.n_timesteps*self.n_features)))
      real_target = real_target.reshape(-1)
      for i in range(fake_data_reshaped.shape[0]):
        for j in range(real_data_reshaped.shape[0]):
          distance[i][j] = np.linalg.norm(fake_data_reshaped[i]-real_data_reshaped[j])

      #print(distance[0:3])
      # do weigthed KNN regressor to calculate the fake target values
      for i in range(fake_data_reshaped.shape[0]):
        sum_dist = 0
```



```
      for i in range(fake_data_reshaped.shape[0]):
        for j in range(real_data_reshaped.shape[0]):
          distance[i][j] = np.linalg.norm(fake_data_reshaped[i]-real_data_reshaped[j])

      #print(distance[0:3])
      # do weigthed KNN regressor to calculate the fake target values
      for i in range(fake_data_reshaped.shape[0]):
        sum_dist = 0
        # find k nearest real samples for ith fake sample
        idx = np.argpartition(distance[i], K)
        for j in range(K):
          fake_target[i] += distance[i][idx[j]]*real_target[idx[j]]
          sum_dist += distance[i][idx[j]]
        fake_target[i] = fake_target[i]/sum_dist

      return fake_target.reshape(-1,1)

    def _build_and_compile_discriminator_model(self):

        discriminator_input = Input(shape=(self.n_timesteps,self.n_features))
        x = LSTM(512, return_sequences=True)(discriminator_input)
        x = Bidirectional(LSTM(512))(x)
        x = Dense(512)(x)
        x = LeakyReLU(alpha=0.2)(x)
        x = Dense(256)(x)
        x = LeakyReLU(alpha=0.2)(x)
        outputs = Dense(1, activation='relu')(x)

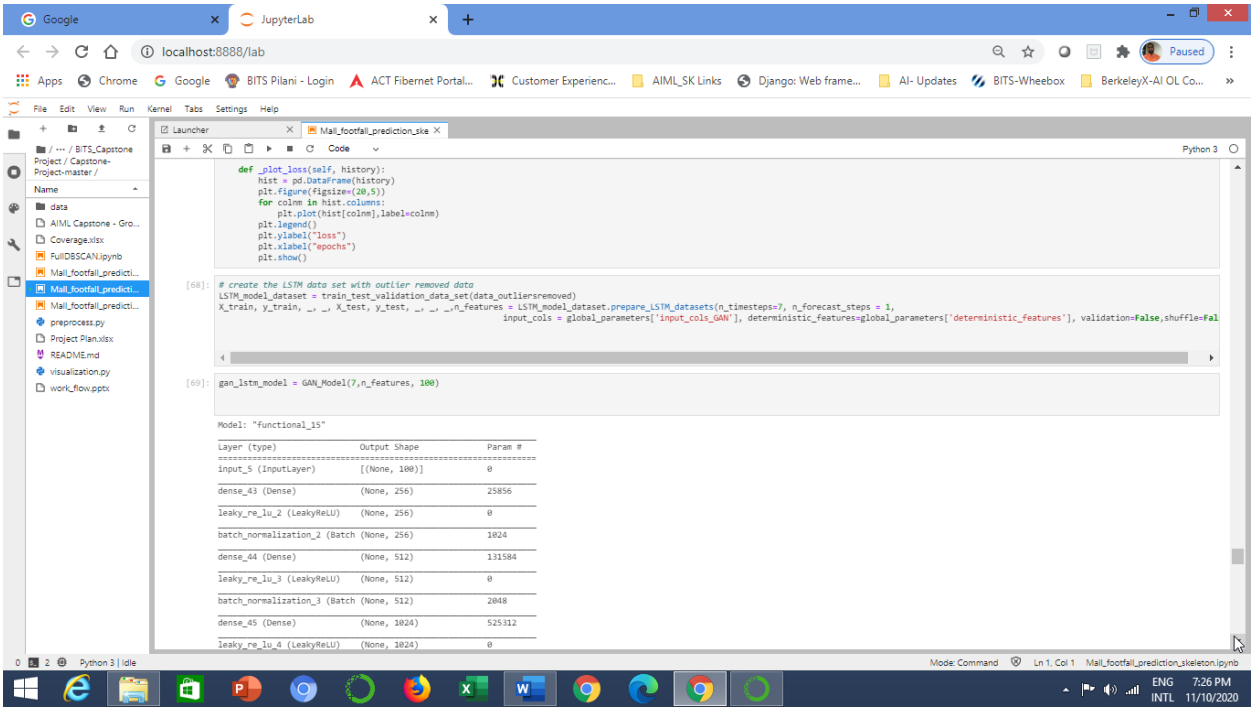
        self.discriminator_model = Model(discriminator_input, outputs)

        self.discriminator_model.compile(loss = 'mse', optimizer=Adam(learning_rate=0.0002, beta_1=0.5))
        self.discriminator_model.summary()


    def _build_and_compile_gan(self, optimizer=None):

        # straight-through model
        self.discriminator_model.trainable = False
        self.gan = Sequential()
        self.gan.add(self.generator_model)
        self.gan.add(self.discriminator_model)
        self.gan.compile(loss = 'mse', optimizer=Adam(learning_rate=0.0002, beta_1=0.5))


    def _plot_loss(self, history):
```


Google
JupyterLab
localhost:8888/lab
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Apps
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Google
BITS Pilani - Login
ACT Fibernet Portal...
Customer Experienc...
AIML_SK Links
Django: Web frame...
AI- Updates
BITS-Wheebox
BerkeleyX-AI OL Co...
File Edit View Run Kernel Tabs Settings Help
Launcher
Mall_footfall_prediction_ske
Code
Python 3
/ ... / BITS_Capstone Project / Capstone-Project-master /
Name
data
AIML Capstone - Gro...
Coverage.xlsx
FullDBSCAN.ipynb
Mall_footfall_predicti...
Mall_footfall_predicti...
Mall_footfall_predicti...
preprocess.py
Project Plan.xlsx
README.md
visualization.py
work_flow.pptx
def _plot_loss(self, history):
hist = pd.DataFrame(history)
plt.figure(figsize=(20,5))
for colnm in hist.columns:
plt.plot(hist[colnm],label=colnm)
plt.legend()
plt.ylabel("loss")
plt.xlabel("epochs")
plt.show()
[68]:
# create the LSTM data set with outlier removed data
LSTM_model_dataset = train_test_validation_data_set(data_outliersremoved)
X_train, y_train, _, _, X_test, y_test, _, _, _,n_features = LSTM_model_dataset.prepare_LSTM_datasets(n_timesteps=7, n_forecast_steps = 1,
input_cols = global_parameters['input_cols_GAN'], deterministic_features=global_parameters['deterministic_features'], validation=False,shuffle=Fal
[69]:
gan_lstm_model = GAN_Model(7,n_features, 100)
Model: "functional_15"
Layer (type) Output Shape Param #
input_5 (InputLayer) [(None, 100)] 0
dense_43 (Dense) (None, 256) 25856
leaky_re_lu_2 (LeakyReLU) (None, 256) 0
batch_normalization_2 (Batch (None, 256) 1024
dense_44 (Dense) (None, 512) 131584
leaky_re_lu_3 (LeakyReLU) (None, 512) 0
batch_normalization_3 (Batch (None, 512) 2048
dense_45 (Dense) (None, 1024) 525312
leaky_re_lu_4 (LeakyReLU) (None, 1024) 0
0 2 Python 3 | Idle
Mode: Command
Ln 1, Col 1
Mall_footfall_prediction_skeleton.ipynb
ENG INTL
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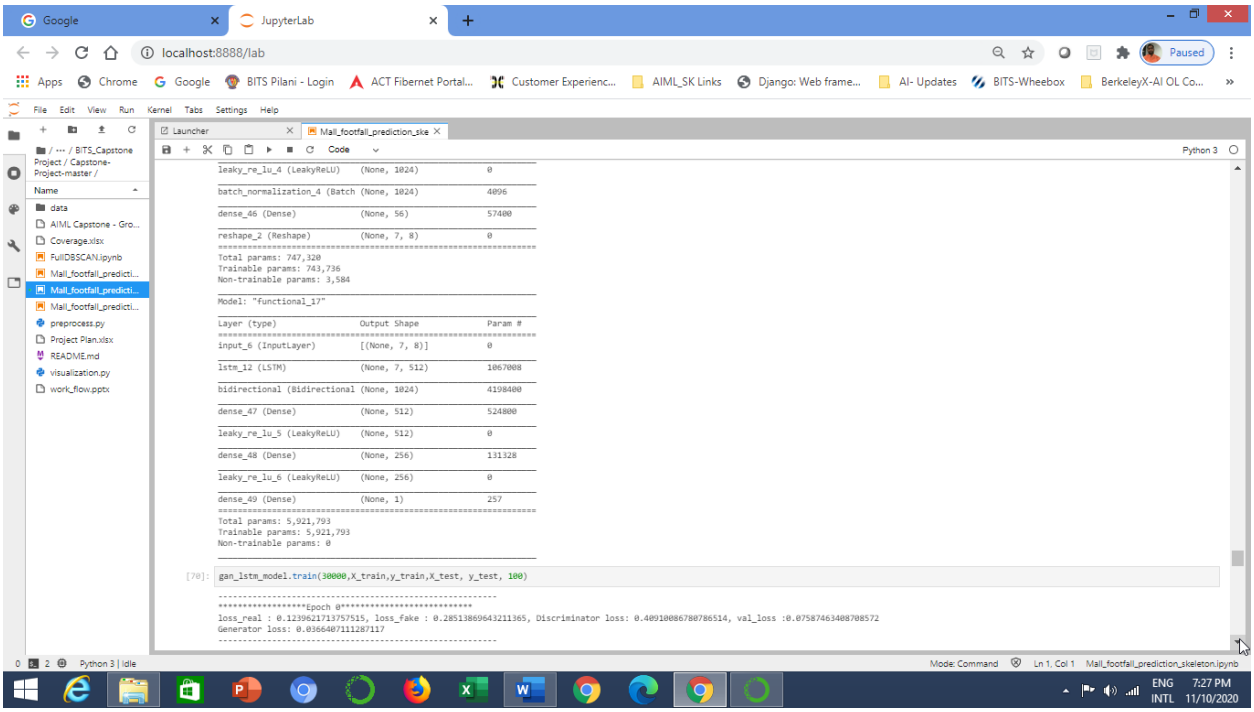
11/10/2020


Google
JupyterLab
localhost:8888/lab
Paused
Apps
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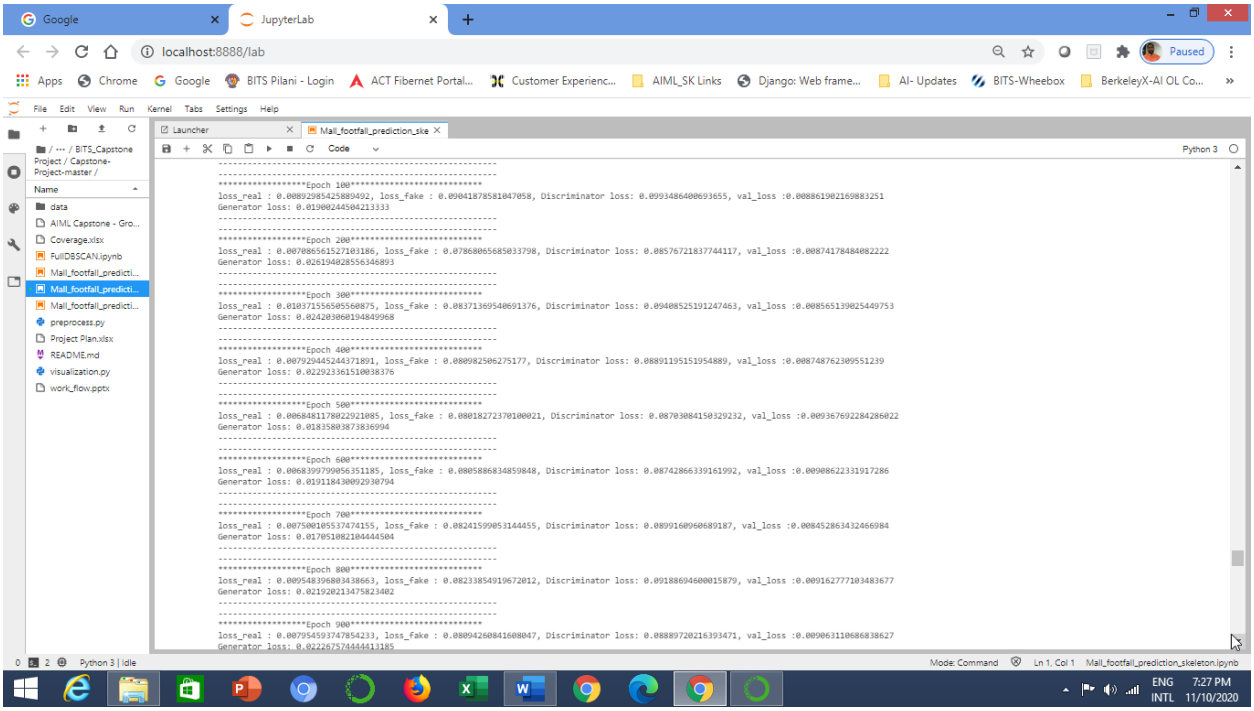
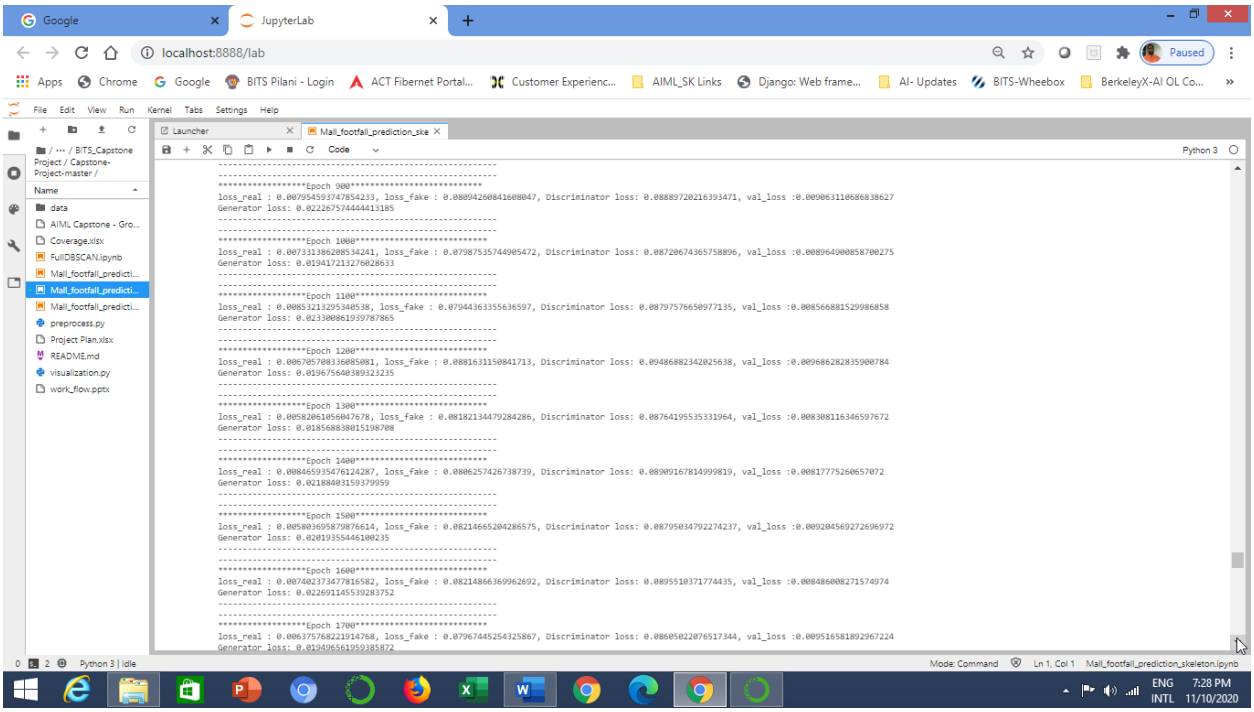
BITS Pilani - Login
ACT Fibernet Portal...
Customer Experienc...
AIML_SK Links
Django: Web frame...
AI- Updates
BITS-Wheebox
BerkeleyX-AI OL Co...
File Edit View Run Kernel Tabs Settings Help
Launcher
Mall_footfall_prediction_ske
Code
Python 3
/ ... / BITS_Capstone Project / Capstone-Project-master /
Name
data
AIML Capstone - Gro...
Coverage.xlsx
FullDBSCAN.ipynb
Mall_footfall_predicti...
Mall_footfall_predicti...
Mall_footfall_predicti...
preprocess.py
Project Plan.xlsx
README.md
visualization.py
work_flow.pptx
leaky_re_lu_4 (LeakyReLU) (None, 1024) 0
batch_normalization_4 (Batch (None, 1024) 4096
dense_46 (Dense) (None, 56) 57400
reshape_2 (Reshape) (None, 7, 8) 0
Total params: 747,320
Trainable params: 743,736
Non-trainable params: 3,584
Model: "functional_17"
Layer (type) Output Shape Param #
input_6 (InputLayer) [(None, 7, 8)] 0
lstm_12 (LSTM) (None, 7, 512) 1067008
bidirectional (Bidirectional (None, 1024) 4198400
dense_47 (Dense) (None, 512) 524800
leaky_re_lu_5 (LeakyReLU) (None, 512) 0
dense_48 (Dense) (None, 256) 131328
leaky_re_lu_6 (LeakyReLU) (None, 256) 0
dense_49 (Dense) (None, 1) 257
Total params: 5,921,793
Trainable params: 5,921,793
Non-trainable params: 0
[70]:
gan_lstm_model.train(30000,X_train,y_train,X_test, y_test, 100)

**********Epoch @**********
loss_real : 0.1239621713757515, loss_fake : 0.28513869643211365, Discriminator loss: 0.40910086780786514, val_loss :0.07587463408708572
Generator loss: 0.03664071111287117
----
0 2 Python 3 | Idle
Mode: Command
Ln 1, Col 1
Mall_footfall_prediction_skeleton.ipynb
ENG INTL
7:27 PM
11/10/2020


JupyterLab
localhost:8888/lab
Paused
Launcher
Mall_footfall_prediction_ske
Code
Python 3
Epoch 100
loss_real : 0.008929854258894 92, loss_fake : 0.09041878581047058, Discriminator loss: 0.09934864006936 55, val_loss :0.008861902169883251
Generator loss: 0.01900244504213333
Epoch 200
loss_real : 0.007086561527103186, loss_fake : 0.07868065685033798, Discriminator loss: 0.08576721837744117, val_loss :0.008741784840822222
Generator loss: 0.02619402855634689 3
Epoch 300
loss_real : 0.010371556585560875, loss_fake : 0.08371369540691376, Discriminator loss: 0.09408525191247463, val_loss :0.008565139025449753
Generator loss: 0.02420306019484996 8
Epoch 400
loss_real : 0.007929445244371891, loss_fake : 0.08098250627517 7, Discriminator loss: 0.08891195151954889, val_loss :0.008748762309551239
Generator loss: 0.02292336151003837 6
Epoch 500
loss_real : 0.006848117802292108 5, loss_fake : 0.08018272370100021, Discriminator loss: 0.08703084150329232, val_loss :0.009367692284286022
Generator loss: 0.01835808873836094
Epoch 600
loss_real : 0.006839979905635118 5, loss_fake : 0.0805886834859848, Discriminator loss: 0.08742866339161992, val_loss :0.009086223319172 86
Generator loss: 0.01911843009293870 4
Epoch 700
loss_real : 0.007500105537474155, loss_fake : 0.08241599053144455, Discriminator loss: 0.08991609606891 87, val_loss :0.008452863432466984
Generator loss: 0.01705108210444450 4
Epoch 800
loss_real : 0.009548396803438663, loss_fake : 0.08233854919672012, Discriminator loss: 0.09188694600015879, val_loss :0.009162777103483677
Generator loss: 0.02192021347582340 2
Epoch 900
loss_real : 0.007954593747854233, loss_fake : 0.08094260841608047, Discriminator loss: 0.08889720216393471, val_loss :0.009063110686838627
Generator loss: 0.02226757444441318 5
Epoch 1000
loss_real : 0.007331386208534241, loss_fake : 0.07987535744905472, Discriminator loss: 0.08720674365758896, val_loss :0.008964900858700275
Generator loss: 0.01941721327602863 3
Epoch 1100
loss_real : 0.00853213295340538, loss_fake : 0.07944363355636597, Discriminator loss: 0.08797576650977135, val_loss :0.008556881529986858
Generator loss: 0.02330086193978786 5
Epoch 1200
loss_real : 0.006705708336085081, loss_fake : 0.08816311508417 13, Discriminator loss: 0.09486882342025638, val_loss :0.009686282835900784
Generator loss: 0.01967564038932323 5
Epoch 1300
loss_real : 0.005820610566047678, loss_fake : 0.08182134479284286, Discriminator loss: 0.08764195535331964, val_loss :0.008380116346597672
Generator loss: 0.01856883801519870 8
Epoch 1400
loss_real : 0.008465935476124287, loss_fake : 0.08062574267387 39, Discriminator loss: 0.08909167814999819, val_loss :0.008177752606570 72
Generator loss: 0.02188403159379959
Epoch 1500
loss_real : 0.005803695879876614, loss_fake : 0.08214665204286575, Discriminator loss: 0.08795034792274237, val_loss :0.009204569272696972
Generator loss: 0.02019355446100235
Epoch 1600
loss_real : 0.007402373477816582, loss_fake : 0.08214866369962692, Discriminator loss: 0.08955103717744 35, val_loss :0.008486008271574974
Generator loss: 0.02269114553928375 2
Epoch 1700
loss_real : 0.006375768221914768, loss_fake : 0.07967445254325867, Discriminator loss: 0.08605022076517344, val_loss :0.009516581892967224
Generator loss: 0.01949656195938587 2
Python 3 | Idle
Mode: Command
Ln 1, Col 1
Mall_footfall_prediction_skeleton.ipynb
ENG INTL
7:27 PM 11/10/2020


JupyterLab
localhost:8888/lab
Paused
Launcher
Mall_footfall_prediction_ske
Code
Python 3
Epoch 900
loss_real : 0.007954593747854233, loss_fake : 0.08094260841608047, Discriminator loss: 0.08889720216393471, val_loss :0.009063110686838627
Generator loss: 0.02226757444441318 5
Epoch 1000
loss_real : 0.007331386208534241, loss_fake : 0.07987535744905472, Discriminator loss: 0.08720674365758896, val_loss :0.008964900858700275
Generator loss: 0.01941721327602863 3
Epoch 1100
loss_real : 0.00853213295340538, loss_fake : 0.07944363355636597, Discriminator loss: 0.08797576650977135, val_loss :0.008556881529986858
Generator loss: 0.02330086193978786 5
Epoch 1200
loss_real : 0.006705708336085081, loss_fake : 0.08816311508417 13, Discriminator loss: 0.09486882342025638, val_loss :0.009686282835900784
Generator loss: 0.01967564038932323 5
Epoch 1300
loss_real : 0.005820610566047678, loss_fake : 0.08182134479284286, Discriminator loss: 0.08764195535331964, val_loss :0.008380116346597672
Generator loss: 0.01856883801519870 8
Epoch 1400
loss_real : 0.008465935476124287, loss_fake : 0.08062574267387 39, Discriminator loss: 0.08909167814999819, val_loss :0.008177752606570 72
Generator loss: 0.02188403159379959
Epoch 1500
loss_real : 0.005803695879876614, loss_fake : 0.08214665204286575, Discriminator loss: 0.08795034792274237, val_loss :0.009204569272696972
Generator loss: 0.02019355446100235
Epoch 1600
loss_real : 0.007402373477816582, loss_fake : 0.08214866369962692, Discriminator loss: 0.08955103717744 35, val_loss :0.008486008271574974
Generator loss: 0.02269114553928375 2
Epoch 1700
loss_real : 0.006375768221914768, loss_fake : 0.07967445254325867, Discriminator loss: 0.08605022076517344, val_loss :0.009516581892967224
Generator loss: 0.01949656195938587 2
Python 3 | Idle
Mode: Command
Ln 1, Col 1
Mall_footfall_prediction_skeleton.ipynb
ENG INTL
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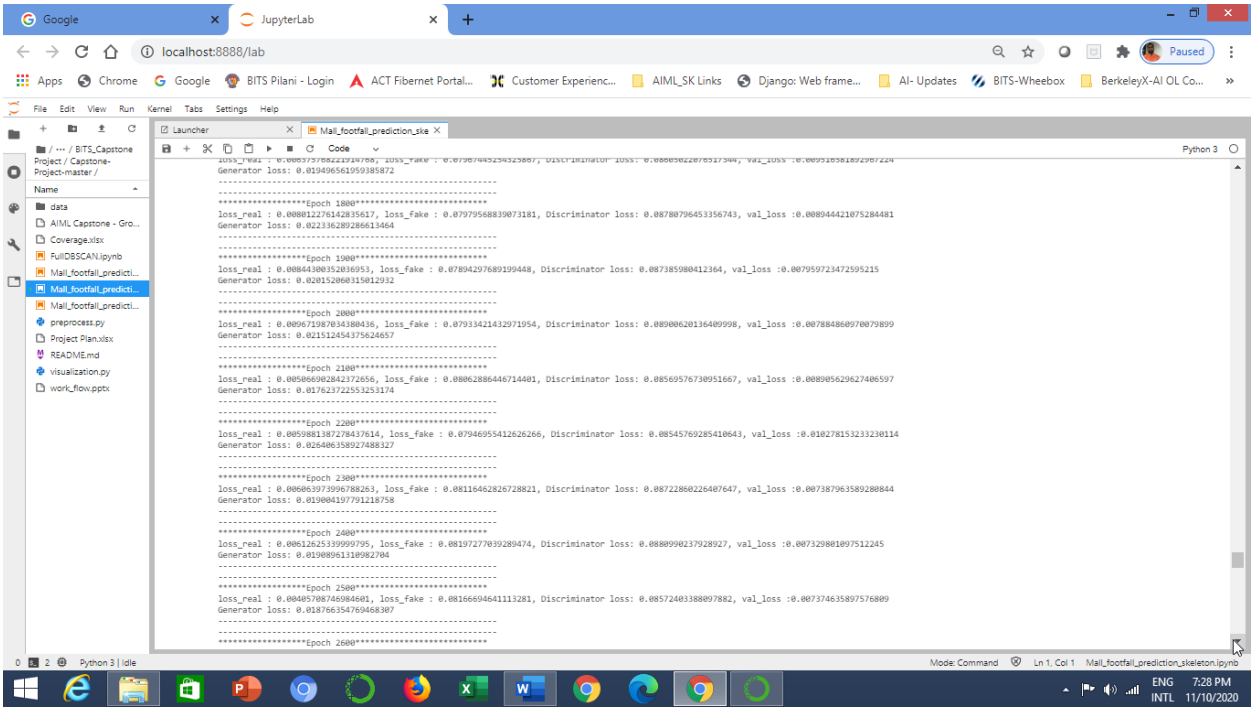
Google
JupyterLab
localhost:8888/lab
Paused
Launcher
Mall_footfall_prediction_ske
Python 3
Epoch 1800
loss_real : 0.008012276142835617, loss_fake : 0.07979568839073181, Discriminator loss: 0.08780796453356743, val_loss :0.008944421075284481
Generator loss: 0.022336289286613464
Epoch 1900
loss_real : 0.008443003520360953, loss_fake : 0.07894297689199448, Discriminator loss: 0.08738598412364, val_loss :0.00795972347595215
Generator loss: 0.020152060315012932
Epoch 2000
loss_real : 0.009671987034380436, loss_fake : 0.07933421432971954, Discriminator loss: 0.08900620136409998, val_loss :0.007884860970079899
Generator loss: 0.021512454375624657
Epoch 2100
loss_real : 0.005066902842372656, loss_fake : 0.08062886446714401, Discriminator loss: 0.08569576730951667, val_loss :0.008905629627406597
Generator loss: 0.017623722553253174
Epoch 2200
loss_real : 0.005988138727843764, loss_fake : 0.07946955412626266, Discriminator loss: 0.08545769285410643, val_loss :0.010278153233230114
Generator loss: 0.026406358927488327
Epoch 2300
loss_real : 0.006063973996788263, loss_fake : 0.08116462826728821, Discriminator loss: 0.08722860226407647, val_loss :0.007387963589280844
Generator loss: 0.019004197791218758
Epoch 2400
loss_real : 0.006126253399999795, loss_fake : 0.08197277039289474, Discriminator loss: 0.08809903279289274, val_loss :0.007329801097512245
Generator loss: 0.019089611310982704
Epoch 2500
loss_real : 0.004057087469846601, loss_fake : 0.08166694641113281, Discriminator loss: 0.08572403388097882, val_loss :0.007374635897576809
Generator loss: 0.018766354769468307
Epoch 2600
Mode: Command
Ln 1, Col 1
Mall_footfall_prediction_skeleton.ipynb
Python 3 | Idle
ENG
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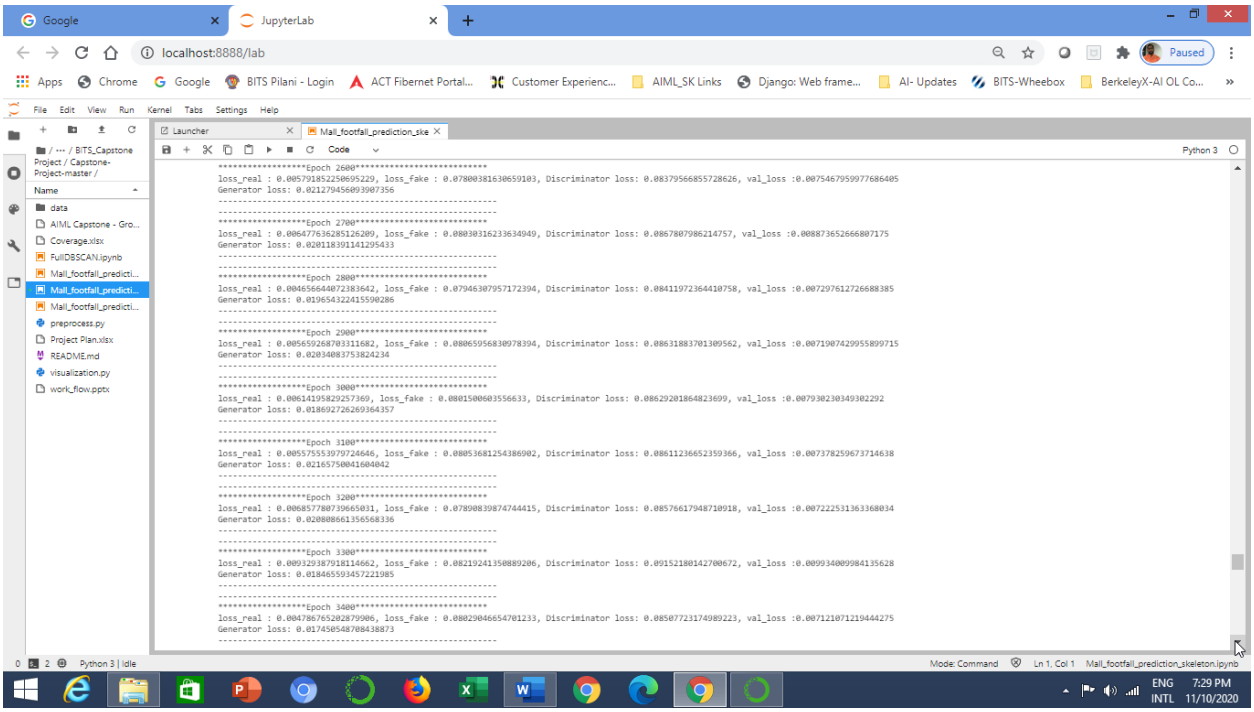
7:28 PM
11/10/2020


Google
JupyterLab
localhost:8888/lab
Paused
Launcher
Mall_footfall_prediction_ske
Python 3
Epoch 2600
loss_real : 0.005791852250695229, loss_fake : 0.07800381630659103, Discriminator loss: 0.08379566855728626, val_loss :0.007546795997768640
Generator loss: 0.021279456093907356
Epoch 2700
loss_real : 0.006477636285126209, loss_fake : 0.08030316233634949, Discriminator loss: 0.0867807986214757, val_loss :0.008873652666807175
Generator loss: 0.020118391141295433
Epoch 2800
loss_real : 0.004656644072383642, loss_fake : 0.07946307957172394, Discriminator loss: 0.08411972364410758, val_loss :0.007297612726688385
Generator loss: 0.019654322415590286
Epoch 2900
loss_real : 0.005659268703311682, loss_fake : 0.08065956830978394, Discriminator loss: 0.08631883701309562, val_loss :0.007190742955899715
Generator loss: 0.020340837538242340
Epoch 3000
loss_real : 0.006141958292573691, loss_fake : 0.08015006035566330, Discriminator loss: 0.08629201864823699, val_loss :0.007930230349302292
Generator loss: 0.018692726269364357
Epoch 3100
loss_real : 0.005575553979726646, loss_fake : 0.08053681254386902, Discriminator loss: 0.08611236652359366, val_loss :0.007378259673714638
Generator loss: 0.021657500416004042
Epoch 3200
loss_real : 0.006857780739665031, loss_fake : 0.07890839874744415, Discriminator loss: 0.08576617948710918, val_loss :0.007222531363368034
Generator loss: 0.020808661356568336
Epoch 3300
loss_real : 0.009329387918114662, loss_fake : 0.08219241350889206, Discriminator loss: 0.09152180142700672, val_loss :0.009934009984135628
Generator loss: 0.018465593457221985
Epoch 3400
loss_real : 0.004786765202879906, loss_fake : 0.08029046654701233, Discriminator loss: 0.08507723174989223, val_loss :0.007121071219444275
Generator loss: 0.017450548708438873
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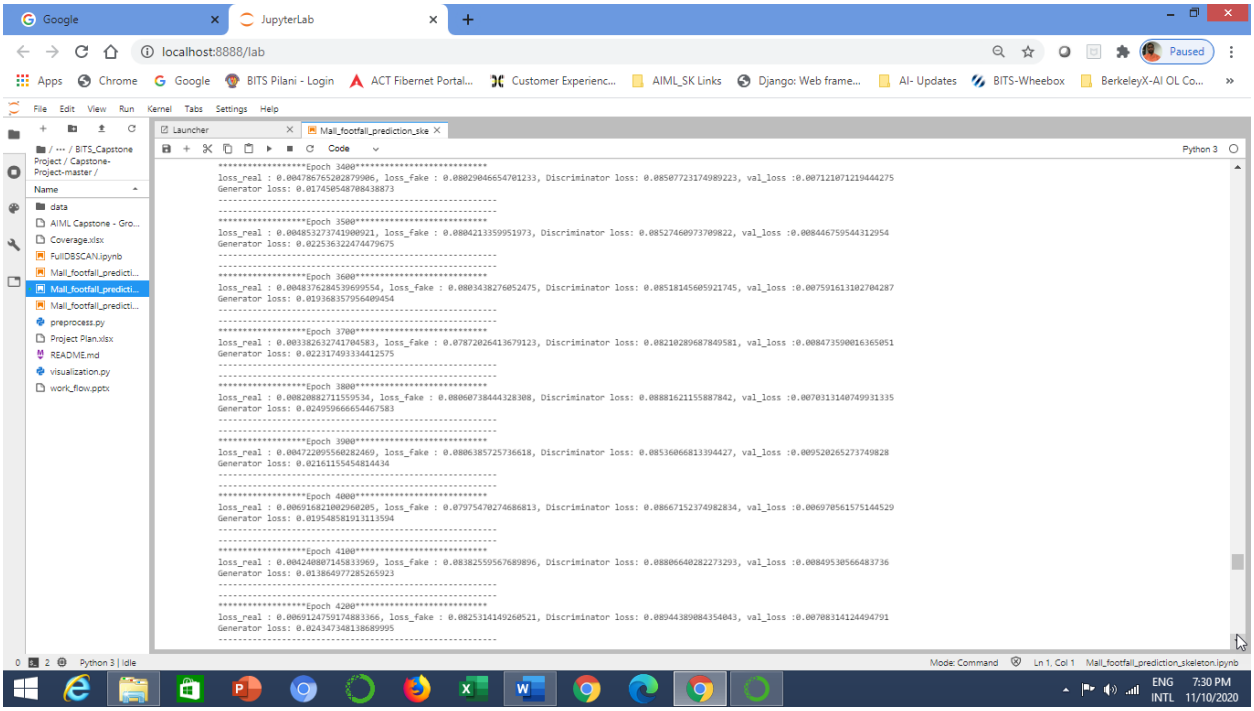
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Project Plan.xlsx
README.md
visualization.py
work_flow.pptx
Epoch 3400
loss_real : 0.004786765202879906, loss_fake : 0.08029046654701233, Discriminator loss: 0.08507723174989223, val_loss :0.007121071219444275
Generator loss: 0.017450548708438873
Epoch 3500
loss_real : 0.004853273741900921, loss_fake : 0.08042133599519973, Discriminator loss: 0.08527460973709822, val_loss :0.008446759544312954
Generator loss: 0.022536322474479675
Epoch 3600
loss_real : 0.004837628453939554, loss_fake : 0.0803438276052475, Discriminator loss: 0.08518145605921745, val_loss :0.007591613102704287
Generator loss: 0.019368357956409454
Epoch 3700
loss_real : 0.003382632741704583, loss_fake : 0.07872026413679123, Discriminator loss: 0.08210289687849581, val_loss :0.008473590016365051
Generator loss: 0.022317493334412575
Epoch 3800
loss_real : 0.008208827115595534, loss_fake : 0.08060738444328308, Discriminator loss: 0.08881621155887842, val_loss :0.007031314074993133
Generator loss: 0.024959666654467583
Epoch 3900
loss_real : 0.004722095560282469, loss_fake : 0.0806385725736618, Discriminator loss: 0.08536066813394427, val_loss :0.009520265273749828
Generator loss: 0.021611554548144434
Epoch 4000
loss_real : 0.006916821002960205, loss_fake : 0.07975470274686813, Discriminator loss: 0.08667152374982834, val_loss :0.006970561575144529
Generator loss: 0.019548581913113594
Epoch 4100
loss_real : 0.004240807145833969, loss_fake : 0.08382559567689896, Discriminator loss: 0.08806640282273293, val_loss :0.008495305664837736
Generator loss: 0.013864977285265923
Epoch 4200
loss_real : 0.006912475917488336, loss_fake : 0.082531414926052l, Discriminator loss: 0.08944389084354043, val_loss :0.007083141244947911
Generator loss: 0.024347348138689995
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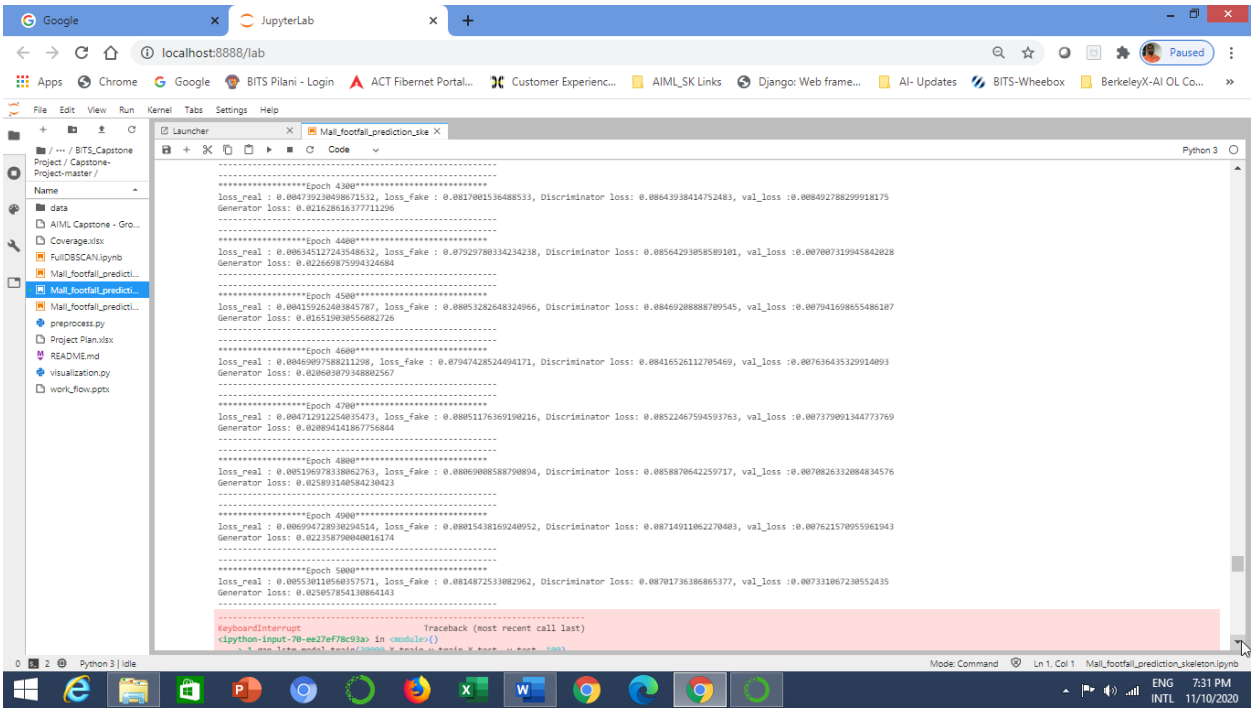
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preprocess.py
Project Plan.xlsx
README.md
visualization.py
work_flow.pptx
Epoch 4300
loss_real : 0.004739230498671532, loss_fake : 0.0817001536488533, Discriminator loss: 0.08643938414752483, val_loss :0.008492788299918175
Generator loss: 0.021628616377711296
Epoch 4400
loss_real : 0.006345127243548632, loss_fake : 0.07929780334234238, Discriminator loss: 0.08564293058589101, val_loss :0.007007319945842028
Generator loss: 0.022669875994324684
Epoch 4500
loss_real : 0.004159262403845787, loss_fake : 0.08053282648324966, Discriminator loss: 0.08469288888709545, val_loss :0.007941698655486107
Generator loss: 0.016519038556082726
Epoch 4600
loss_real : 0.00469097588211298, loss_fake : 0.07947428524494171, Discriminator loss: 0.08416526112705469, val_loss :0.007636435329914093
Generator loss: 0.020603079348802567
Epoch 4700
loss_real : 0.004712912254035473, loss_fake : 0.08051176369190216, Discriminator loss: 0.08522467594593763, val_loss :0.007379091344773769
Generator loss: 0.020894141867756844
Epoch 4800
loss_real : 0.005196978338062763, loss_fake : 0.08069008588790894, Discriminator loss: 0.08588706422597l7, val_loss :0.007082633208483457 6
Generator loss: 0.025893140584230423
Epoch 4900
loss_real : 0.006994728930294514, loss_fake : 0.08015438169240952, Discriminator loss: 0.08714911062270403, val_loss :0.007621570955961943
Generator loss: 0.022358790040016174
Epoch 5000
loss_real : 0.005530110560357571, loss_fake : 0.08148725330829l2, Discriminator loss: 0.08701736386865377, val_loss :0.007331067230552435
Generator loss: 0.025057854130864143
KeyboardInterrupt Traceback (most recent call last)
<ipython-input-70-ee27ef78c93a> in <module>()
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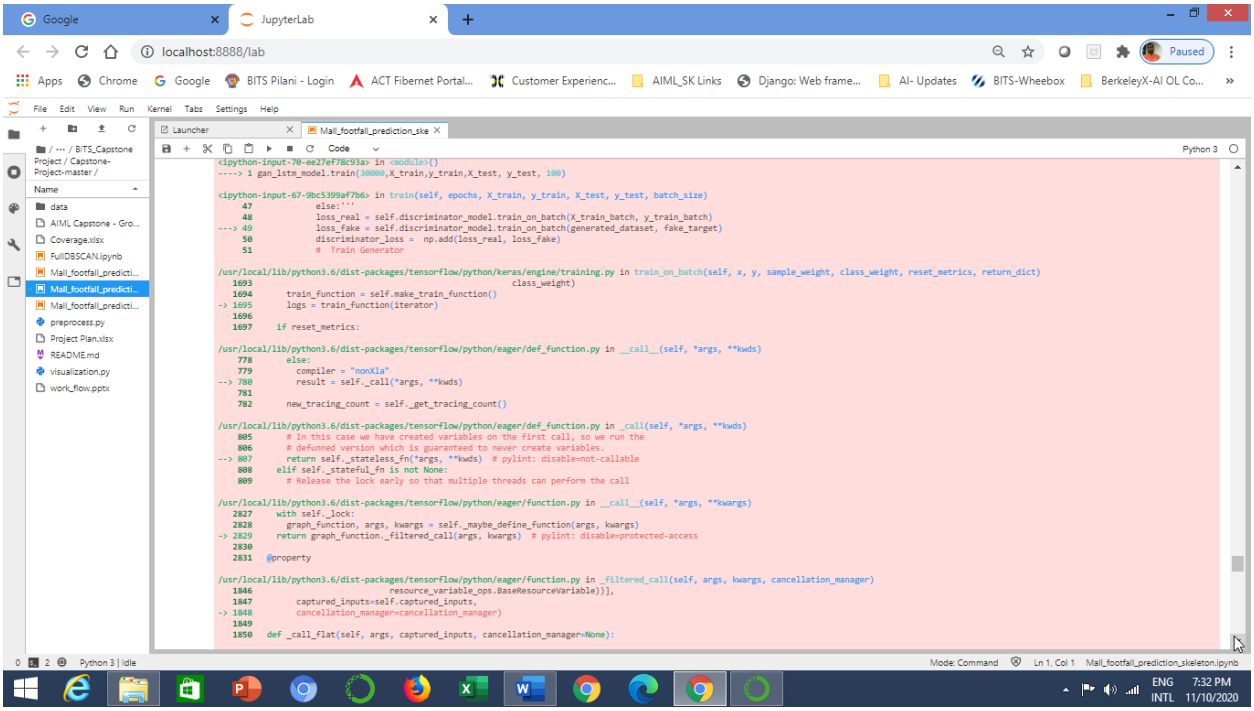
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/usr/local/lib/python3.6/dist-packages/tensorflow/python/eager/def_function.py in __call__(self, *args, **kwds)
/usr/local/lib/python3.6/dist-packages/tensorflow/python/eager/def_function.py in _call(self, *args, **kwds)
/usr/local/lib/python3.6/dist-packages/tensorflow/python/eager/function.py in __call__(self, *args, **kwargs)
/usr/local/lib/python3.6/dist-packages/tensorflow/python/eager/function.py in _filtered_call(self, args, kwargs, cancellation_manager)
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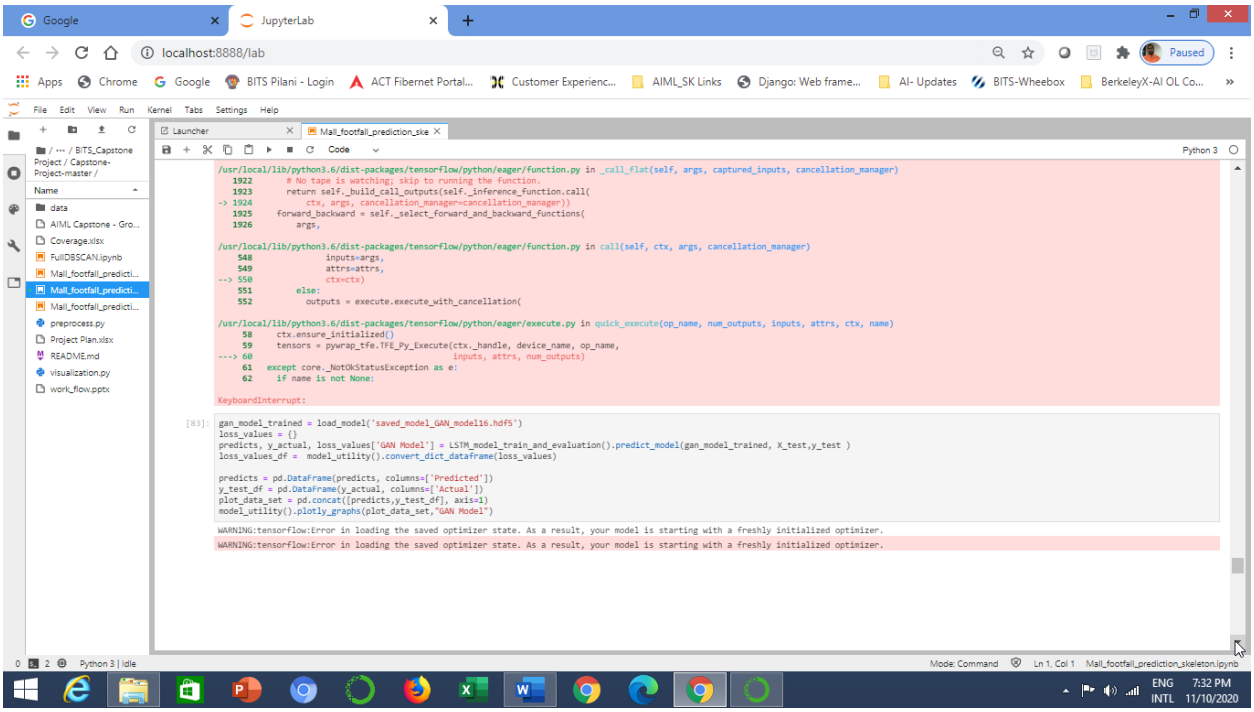
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Mall_footfall_prediction_ske
Code
Python 3
/usr/local/lib/python3.6/dist-packages/tensorflow/python/eager/function.py in _call_flat(self, args, captured_inputs, cancellation_manager)
/usr/local/lib/python3.6/dist-packages/tensorflow/python/eager/function.py in call(self, ctx, args, cancellation_manager)
/usr/local/lib/python3.6/dist-packages/tensorflow/python/eager/execute.py in quick_execute(op_name, num_outputs, inputs, attrs, ctx, name)
KeyboardInterrupt:
[83]:
gan_model_trained = load_model('saved_model_GAN_model16.hdf5')
loss_values = {}
predicts, y_actual, loss_values['GAN Model'] = LSTM_model_train_and_evaluation().predict_model(gan_model_trained, X_test,y_test)
loss_values_df = model_utility().convert_dict_dataframe(loss_values)
predicts = pd.DataFrame(predicts, columns=['Predicted'])
y_test_df = pd.DataFrame(y_actual, columns=['Actual'])
plot_data_set = pd.concat([predicts,y_test_df], axis=1)
model_utility().plotly_graphs(plot_data_set,"GAN Model")
WARNING:tensorflow:Error in loading the saved optimizer state. As a result, your model is starting with a freshly initialized optimizer.
WARNING:tensorflow:Error in loading the saved optimizer state. As a result, your model is starting with a freshly initialized optimizer.
Python 3 | Idle
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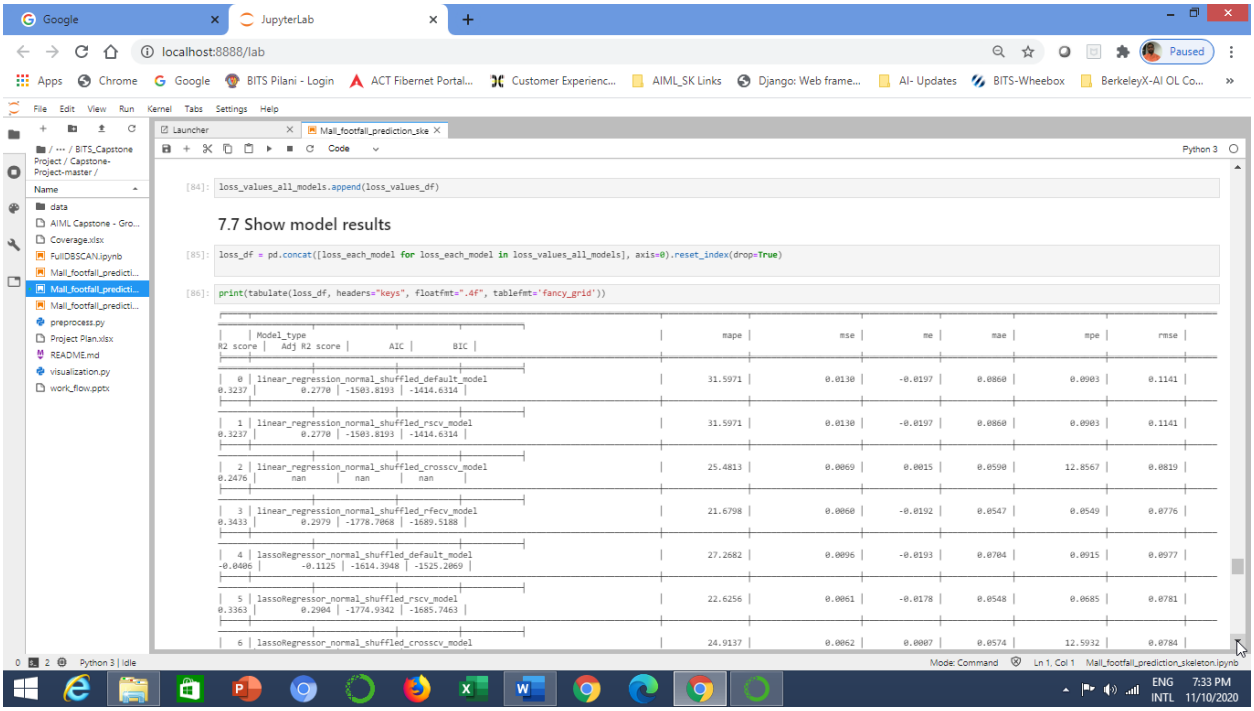


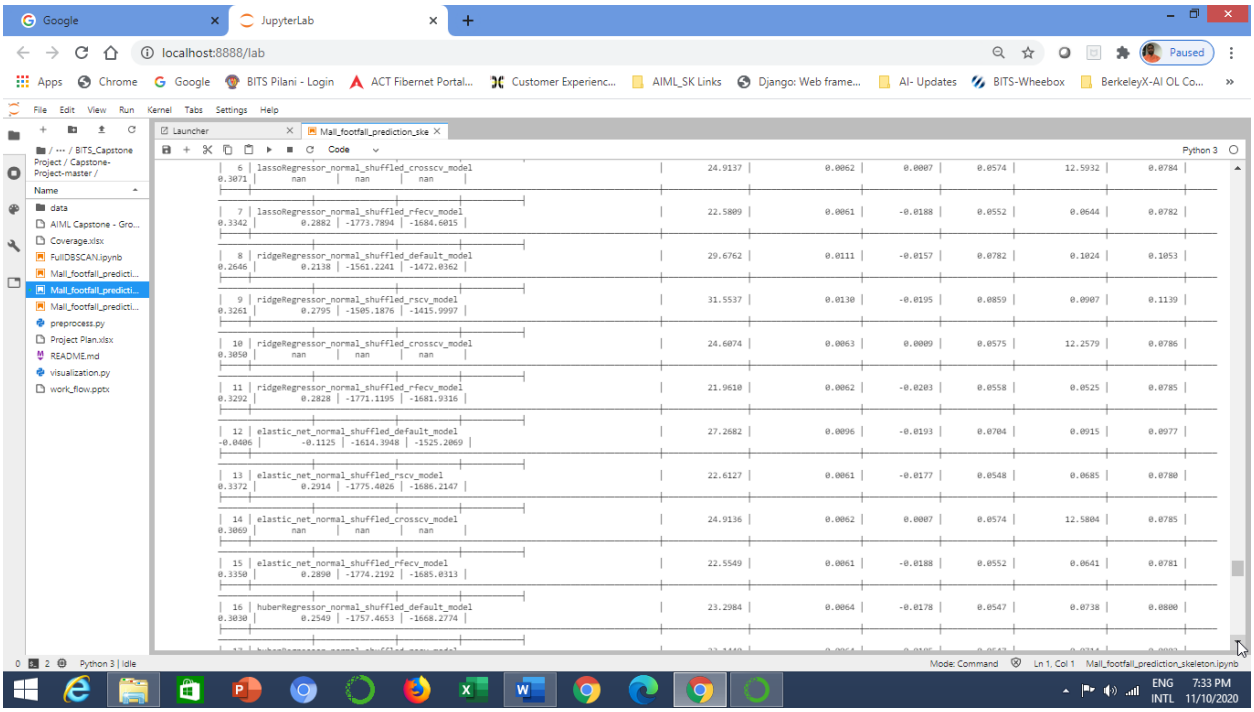
```
[84]: loss_values_all_models.append(loss_values_df)
```

7.7 Show model results

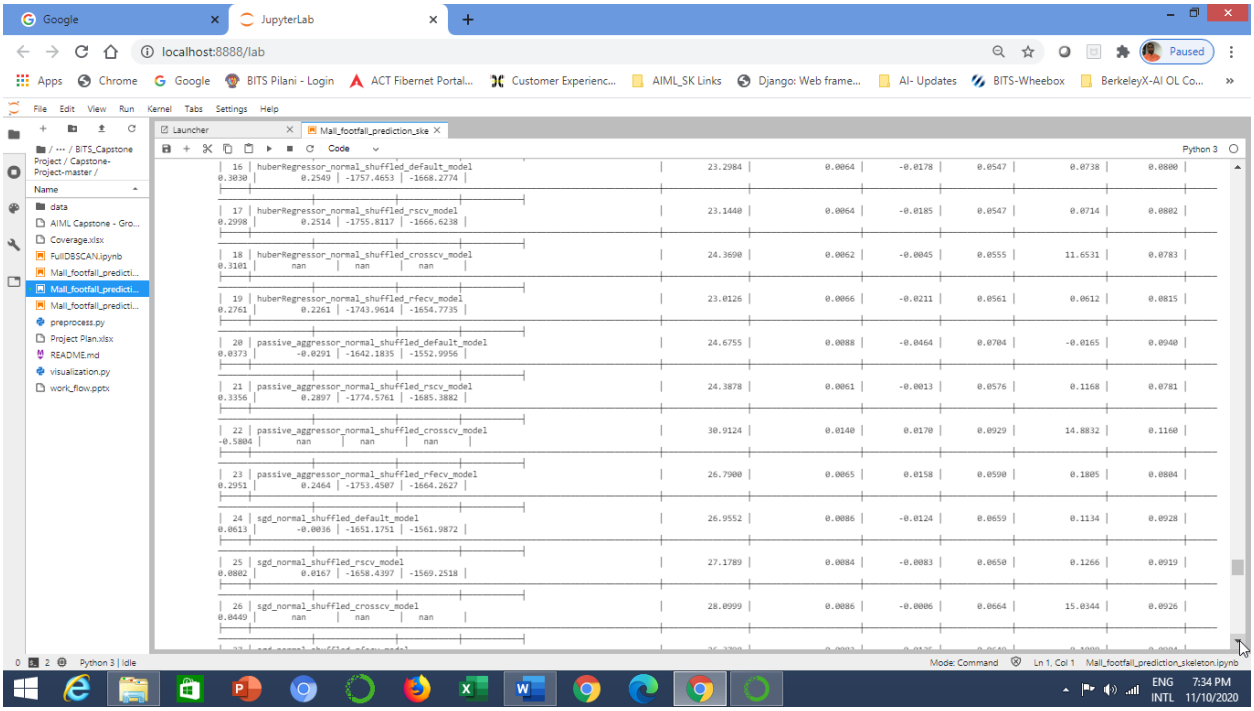
```
[85]: loss_df = pd.concat([loss_each_model for loss_each_model in loss_values_all_models], axis=0).reset_index(drop=True)

[86]: print(tabulate(loss_df, headers="keys", floatfmt=".4f", tablefmt='fancy_grid'))
```

	Model_type	mape	mse	me	mae	mpe	rmse	R2 score	Adj R2 score	AIC	BIC
0	linear_regression_normal_shuffled_default_model	31.5971	0.0130	-0.0197	0.0860	0.0903	0.1141	0.3237	0.2770	-1503.8193	-1414.6314
1	linear_regression_normal_shuffled_rscv_model	31.5971	0.0130	-0.0197	0.0860	0.0903	0.1141	0.3237	0.2770	-1503.8193	-1414.6314
2	linear_regression_normal_shuffled_crosscv_model	25.4813	0.0069	0.0015	0.0590	12.8567	0.0819	0.2476	nan	nan	nan
3	linear_regression_normal_shuffled_rfecv_model	21.6798	0.0060	-0.0192	0.0547	0.0549	0.0776	0.3433	0.2979	-1778.7068	-1689.5188
4	lassoRegressor_normal_shuffled_default_model	27.2682	0.0096	-0.0193	0.0704	0.0915	0.0977	-0.0406	-0.1125	-1614.3948	-1525.2069
5	lassoRegressor_normal_shuffled_rscv_model	22.6256	0.0061	-0.0178	0.0548	0.0685	0.0781	0.3363	0.2904	-1774.9342	-1685.7463
6	lassoRegressor_normal_shuffled_crosscv_model	24.9137	0.0062	0.0007	0.0574	12.5932	0.0784	0.3071	nan	nan	nan
7	lassoRegressor_normal_shuffled_rfecv_model	22.5809	0.0061	-0.0188	0.0552	0.0644	0.0782	0.3342	0.2882	-1773.7894	-1684.6015
8	ridgeRegressor_normal_shuffled_default_model	29.6762	0.0111	-0.0157	0.0782	0.1024	0.1053	0.2646	0.2138	-1561.2241	-1472.0362
9	ridgeRegressor_normal_shuffled_rscv_model	31.5537	0.0130	-0.0195	0.0859	0.0907	0.1139	0.3261	0.2795	-1505.1876	-1415.9997
10	ridgeRegressor_normal_shuffled_crosscv_model	24.6074	0.0063	0.0009	0.0575	12.2579	0.0786	0.3050	nan	nan	nan
11	ridgeRegressor_normal_shuffled_rfecv_model	21.9610	0.0062	-0.0203	0.0558	0.0525	0.0785	0.3292	0.2828	-1771.1195	-1681.9316
12	elastic_net_normal_shuffled_default_model	27.2682	0.0096	-0.0193	0.0704	0.0915	0.0977	-0.0406	-0.1125	-1614.3948	-1525.2069
13	elastic_net_normal_shuffled_rscv_model	22.6127	0.0061	-0.0177	0.0548	0.0685	0.0780	0.3372	0.2914	-1775.4026	-1686.2147
14	elastic_net_normal_shuffled_crosscv_model	24.9136	0.0062	0.0007	0.0574	12.5804	0.0785	0.3069	nan	nan	nan
15	elastic_net_normal_shuffled_rfecv_model	22.5549	0.0061	-0.0188	0.0552	0.0641	0.0781	0.3350	0.2890	-1774.2192	-1685.0313
16	huberRegressor_normal_shuffled_default_model	23.2984	0.0064	-0.0178	0.0547	0.0738	0.0800	0.3030	0.2549	-1757.4653	-1668.2774



	Model_type	mape	mse	me	mae	mpe	rmse	R2 score	Adj R2 score	AIC	BIC
6	lassoRegressor_normal_shuffled_crosscv_model	24.9137	0.0062	0.0007	0.0574	12.5932	0.0784	0.3071	nan	nan	nan
7	lassoRegressor_normal_shuffled_rfecv_model	22.5809	0.0061	-0.0188	0.0552	0.0644	0.0782	0.3342	0.2882	-1773.7894	-1684.6015
8	ridgeRegressor_normal_shuffled_default_model	29.6762	0.0111	-0.0157	0.0782	0.1024	0.1053	0.2646	0.2138	-1561.2241	-1472.0362
9	ridgeRegressor_normal_shuffled_rscv_model	31.5537	0.0130	-0.0195	0.0859	0.0907	0.1139	0.3261	0.2795	-1505.1876	-1415.9997
10	ridgeRegressor_normal_shuffled_crosscv_model	24.6074	0.0063	0.0009	0.0575	12.2579	0.0786	0.3050	nan	nan	nan
11	ridgeRegressor_normal_shuffled_rfecv_model	21.9610	0.0062	-0.0203	0.0558	0.0525	0.0785	0.3292	0.2828	-1771.1195	-1681.9316
12	elastic_net_normal_shuffled_default_model	27.2682	0.0096	-0.0193	0.0704	0.0915	0.0977	-0.0406	-0.1125	-1614.3948	-1525.2069
13	elastic_net_normal_shuffled_rscv_model	22.6127	0.0061	-0.0177	0.0548	0.0685	0.0780	0.3372	0.2914	-1775.4026	-1686.2147
14	elastic_net_normal_shuffled_crosscv_model	24.9136	0.0062	0.0007	0.0574	12.5804	0.0785	0.3069	nan	nan	nan
15	elastic_net_normal_shuffled_rfecv_model	22.5549	0.0061	-0.0188	0.0552	0.0641	0.0781	0.3350	0.2890	-1774.2192	-1685.0313
16	huberRegressor_normal_shuffled_default_model	23.2984	0.0064	-0.0178	0.0547	0.0738	0.0800	0.3030	0.2549	-1757.4653	-1668.2774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16 | huberRegressor_normal_shuffled_default_model | 23.2984 | 0.0064 | -0.0178 | 0.0547 | 0.0738 | 0.0880 | 0.3030 | 0.2549 | -1757.4653 | -1668.2774
17 | huberRegressor_normal_shuffled_rscv_model | 23.1440 | 0.0064 | -0.0185 | 0.0547 | 0.0714 | 0.0882 | 0.2998 | 0.2514 | -1755.8117 | -1666.6238
18 | huberRegressor_normal_shuffled_crosscv_model | 24.3690 | 0.0062 | -0.0045 | 0.0555 | 11.6531 | 0.0783 | 0.3101 | nan | nan | nan
19 | huberRegressor_normal_shuffled_rfecv_model | 23.0126 | 0.0066 | -0.0211 | 0.0561 | 0.0612 | 0.0815 | 0.2761 | 0.2261 | -1743.9614 | -1654.7735
20 | passive_aggressor_normal_shuffled_default_model | 24.6755 | 0.0088 | -0.0464 | 0.0704 | -0.0165 | 0.0940 | 0.0373 | -0.0291 | -1642.1835 | -1552.9956
21 | passive_aggressor_normal_shuffled_rscv_model | 24.3878 | 0.0061 | -0.0013 | 0.0576 | 0.1168 | 0.0781 | 0.3356 | 0.2897 | -1774.5761 | -1685.3882
22 | passive_aggressor_normal_shuffled_crosscv_model | 30.9124 | 0.0140 | 0.0170 | 0.0929 | 14.8832 | 0.1160 | -0.5804 | nan | nan | nan
23 | passive_aggressor_normal_shuffled_rfecv_model | 26.7900 | 0.0065 | 0.0158 | 0.0590 | 0.1805 | 0.0804 | 0.2951 | 0.2464 | -1753.4507 | -1664.2627
24 | sgd_normal_shuffled_default_model | 26.9552 | 0.0086 | -0.0124 | 0.0659 | 0.1134 | 0.0928 | 0.0613 | -0.0036 | -1651.1751 | -1561.9872
25 | sgd_normal_shuffled_rscv_model | 27.1789 | 0.0084 | -0.0083 | 0.0650 | 0.1266 | 0.0919 | 0.0802 | 0.0167 | -1658.4397 | -1569.2518
26 | sgd_normal_shuffled_crosscv_model | 28.0999 | 0.0086 | -0.0006 | 0.0664 | 15.0344 | 0.0926 | 0.0449 | nan | nan | nan
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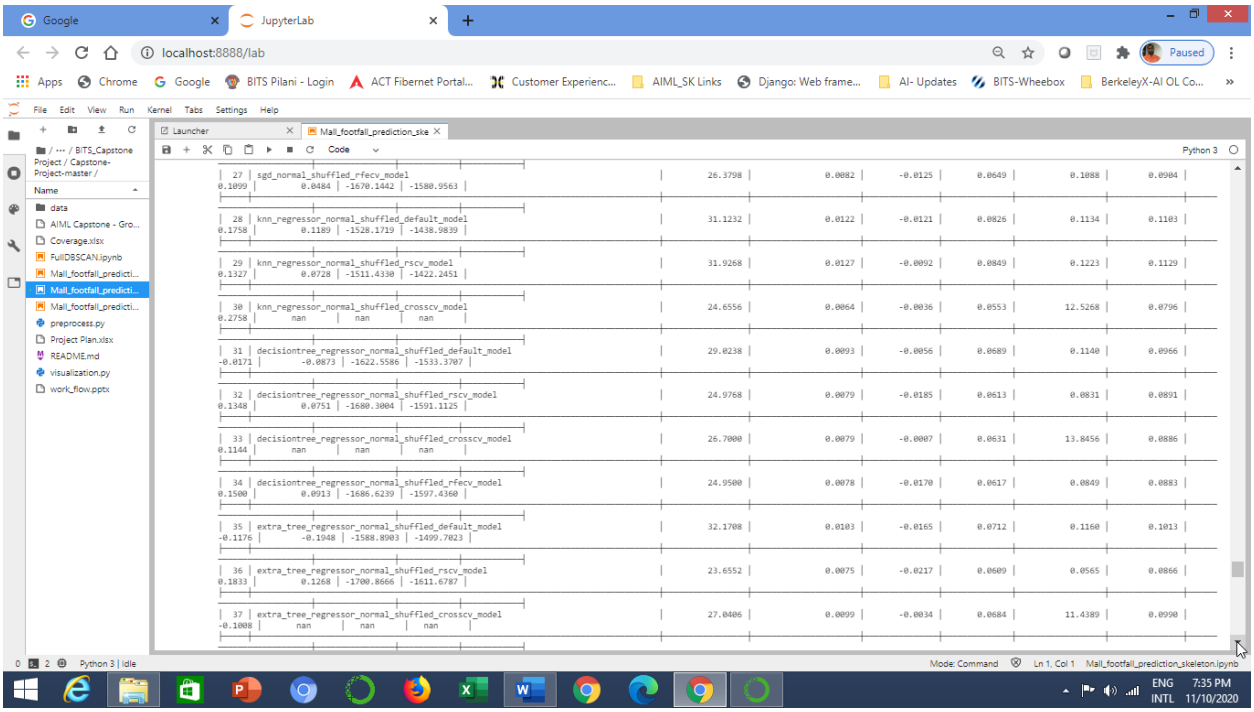
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work_flow.pptx
27 | sgd_normal_shuffled_rfecv_model | 26.3798 | 0.0082 | -0.0125 | 0.0649 | 0.1088 | 0.0904 | 0.1099 | 0.0484 | -1670.1442 | -1580.9563
28 | knn_regressor_normal_shuffled_default_model | 31.1232 | 0.0122 | -0.0121 | 0.0826 | 0.1134 | 0.1103 | 0.1758 | 0.1189 | -1528.1719 | -1438.9839
29 | knn_regressor_normal_shuffled_rscv_model | 31.9268 | 0.0127 | -0.0092 | 0.0849 | 0.1223 | 0.1129 | 0.1327 | 0.0728 | -1511.4330 | -1422.2451
30 | knn_regressor_normal_shuffled_crosscv_model | 24.6556 | 0.0064 | -0.0036 | 0.0553 | 12.5268 | 0.0796 | 0.2758 | nan | nan | nan
31 | decisiontree_regressor_normal_shuffled_default_model | 29.0238 | 0.0093 | -0.0056 | 0.0689 | 0.1140 | 0.0966 | -0.0171 | -0.0873 | -1622.5586 | -1533.3707
32 | decisiontree_regressor_normal_shuffled_rscv_model | 24.9768 | 0.0079 | -0.0185 | 0.0613 | 0.0831 | 0.0891 | 0.1348 | 0.0751 | -1680.3004 | -1591.1125
33 | decisiontree_regressor_normal_shuffled_crosscv_model | 26.7000 | 0.0079 | -0.0007 | 0.0631 | 13.8456 | 0.0886 | 0.1144 | nan | nan | nan
34 | decisiontree_regressor_normal_shuffled_rfecv_model | 24.9500 | 0.0078 | -0.0170 | 0.0617 | 0.0849 | 0.0883 | 0.1500 | 0.0913 | -1686.6239 | -1597.4360
35 | extra_tree_regressor_normal_shuffled_default_model | 32.1708 | 0.0103 | -0.0165 | 0.0712 | 0.1160 | 0.1013 | -0.1176 | -0.1948 | -1588.8903 | -1499.7023
36 | extra_tree_regressor_normal_shuffled_rscv_model | 23.6552 | 0.0075 | -0.0217 | 0.0609 | 0.0565 | 0.0866 | 0.1833 | 0.1268 | -1700.8666 | -1611.6787
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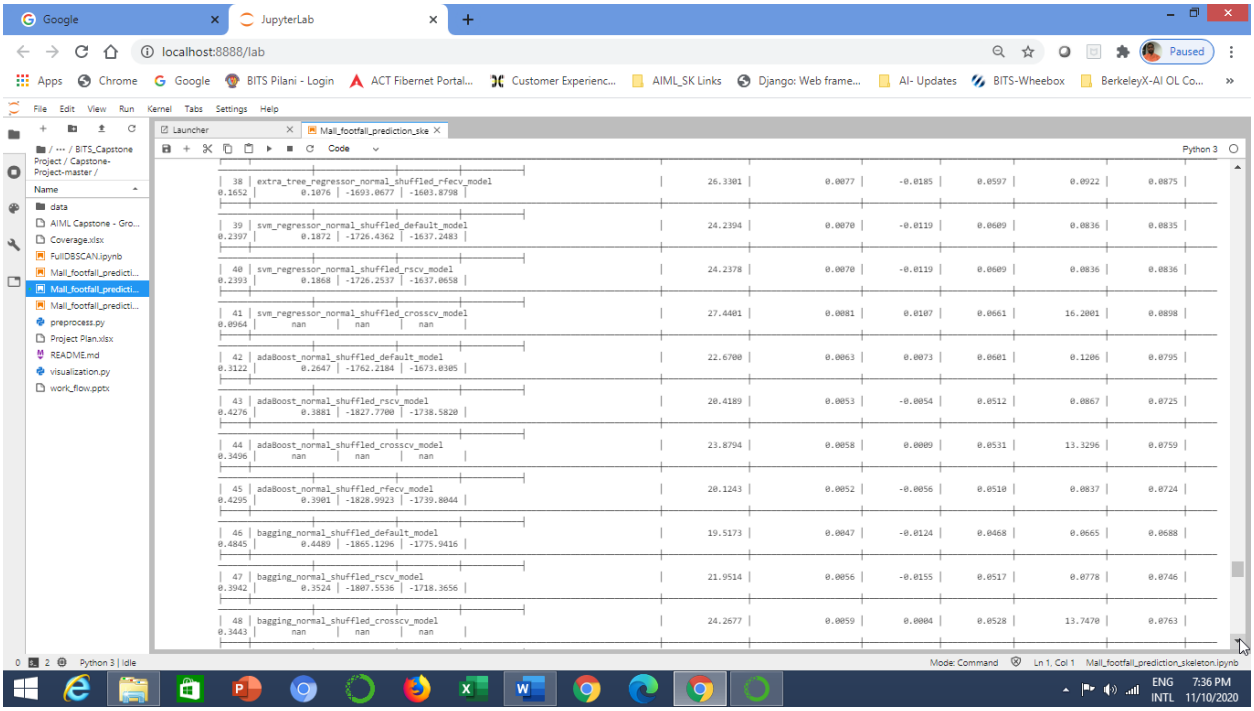
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38 | extra_tree_regressor_normal_shuffled_rfecv_model | 26.3301 | 0.0077 | -0.0185 | 0.0597 | 0.0922 | 0.0875 | 0.1652 | 0.1076 | -1693.0677 | -1603.8798
39 | svm_regressor_normal_shuffled_default_model | 24.2394 | 0.0070 | -0.0119 | 0.0609 | 0.0836 | 0.0835 | 0.2397 | 0.1872 | -1726.4362 | -1637.2483
40 | svm_regressor_normal_shuffled_rscv_model | 24.2378 | 0.0070 | -0.0119 | 0.0609 | 0.0836 | 0.0836 | 0.2393 | 0.1868 | -1726.2537 | -1637.0658
41 | svm_regressor_normal_shuffled_crosscv_model | 27.4401 | 0.0081 | 0.0107 | 0.0661 | 16.2001 | 0.0898 | 0.0964 | nan | nan | nan
42 | adaBoost_normal_shuffled_default_model | 22.6700 | 0.0063 | 0.0073 | 0.0601 | 0.1206 | 0.0795 | 0.3122 | 0.2647 | -1762.2184 | -1673.0305
43 | adaBoost_normal_shuffled_rscv_model | 20.4189 | 0.0053 | -0.0054 | 0.0512 | 0.0867 | 0.0725 | 0.4276 | 0.3881 | -1827.7700 | -1738.5820
44 | adaBoost_normal_shuffled_crosscv_model | 23.8794 | 0.0058 | 0.0009 | 0.0531 | 13.3296 | 0.0759 | 0.3496 | nan | nan | nan
45 | adaBoost_normal_shuffled_rfecv_model | 20.1243 | 0.0052 | -0.0056 | 0.0510 | 0.0837 | 0.0724 | 0.4295 | 0.3901 | -1828.9923 | -1739.8044
46 | bagging_normal_shuffled_default_model | 19.5173 | 0.0047 | -0.0124 | 0.0468 | 0.0665 | 0.0688 | 0.4845 | 0.4489 | -1865.1296 | -1775.9416
47 | bagging_normal_shuffled_rscv_model | 21.9514 | 0.0056 | -0.0155 | 0.0517 | 0.0778 | 0.0746 | 0.3942 | 0.3524 | -1807.5536 | -1718.3656
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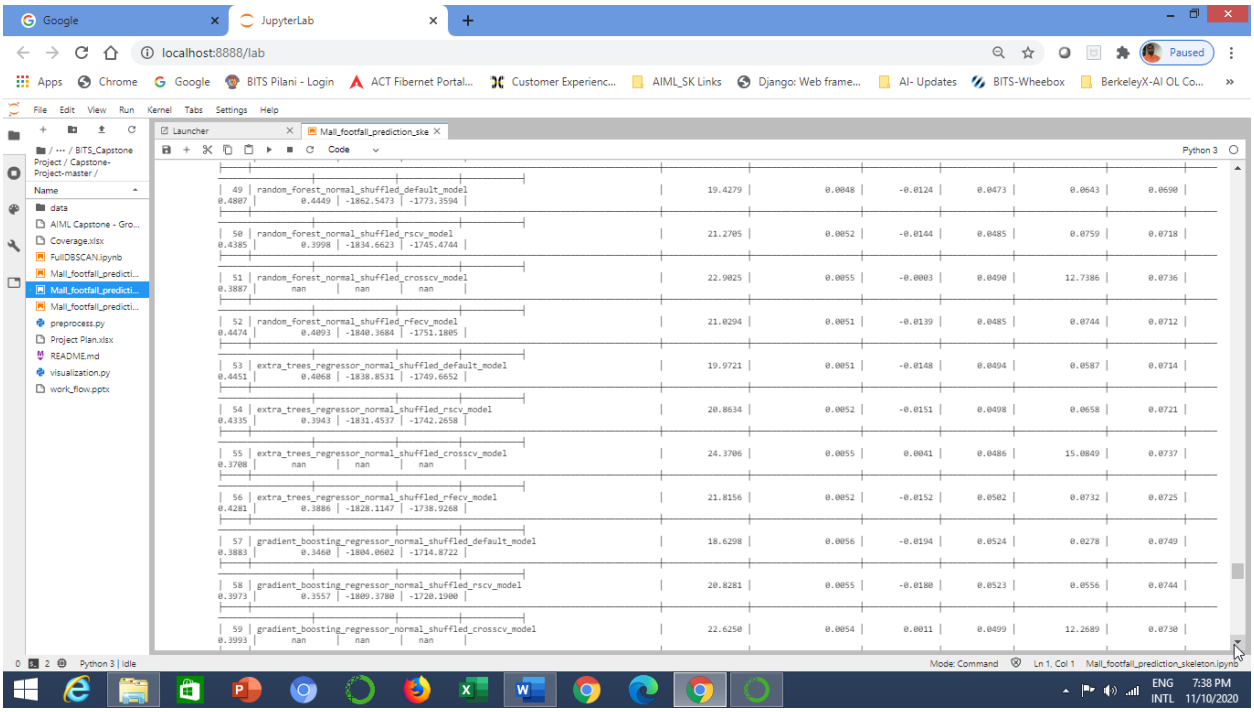
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50 | random_forest_normal_shuffled_rscv_model | 21.2705 | 0.0052 | -0.0144 | 0.0485 | 0.0759 | 0.0718 | 0.4385 | 0.3998 | -1834.6623 | -1745.4744
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52 | random_forest_normal_shuffled_rfecv_model | 21.0294 | 0.0051 | -0.0139 | 0.0485 | 0.0744 | 0.0712 | 0.4474 | 0.4093 | -1840.3684 | -1751.1805
53 | extra_trees_regressor_normal_shuffled_default_model | 19.9721 | 0.0051 | -0.0148 | 0.0494 | 0.0587 | 0.0714 | 0.4451 | 0.4068 | -1838.8531 | -1749.6652
54 | extra_trees_regressor_normal_shuffled_rscv_model | 20.8634 | 0.0052 | -0.0151 | 0.0498 | 0.0658 | 0.0721 | 0.4335 | 0.3943 | -1831.4537 | -1742.2658
55 | extra_trees_regressor_normal_shuffled_crosscv_model | 24.3706 | 0.0055 | 0.0041 | 0.0486 | 15.0849 | 0.0737 | 0.3708 | nan | nan | nan
56 | extra_trees_regressor_normal_shuffled_rfecv_model | 21.8156 | 0.0052 | -0.0152 | 0.0502 | 0.0732 | 0.0725 | 0.4281 | 0.3886 | -1828.1147 | -1738.9268
57 | gradient_boosting_regressor_normal_shuffled_default_model | 18.6298 | 0.0056 | -0.0194 | 0.0524 | 0.0278 | 0.0749 | 0.3883 | 0.3460 | -1804.0602 | -1714.8722
58 | gradient_boosting_regressor_normal_shuffled_rscv_model | 20.8281 | 0.0055 | -0.0180 | 0.0523 | 0.0556 | 0.0744 | 0.3973 | 0.3557 | -1809.3780 | -1720.1900
59 | gradient_boosting_regressor_normal_shuffled_crosscv_model | 22.6250 | 0.0054 | 0.0011 | 0.0499 | 12.2689 | 0.0730 | 0.3993 | nan | nan | nan
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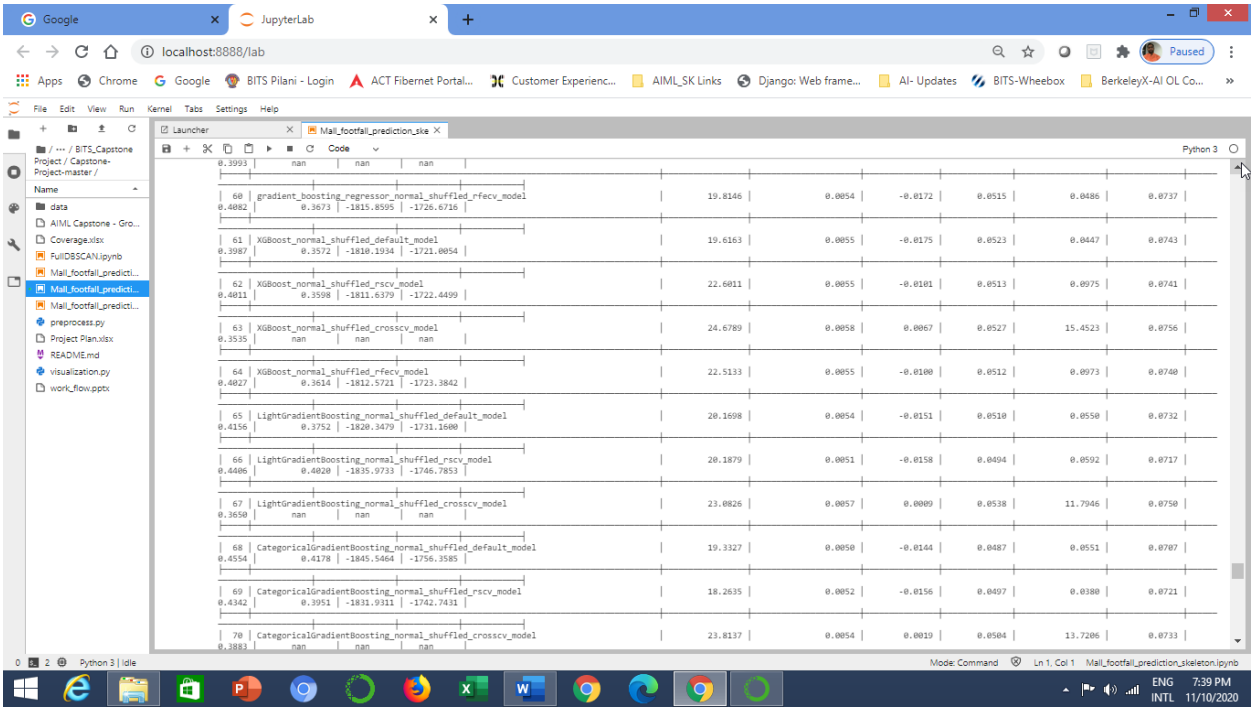
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60 | gradient_boosting_regressor_normal_shuffled_rfecv_model | 19.8146 | 0.0054 | -0.0172 | 0.0515 | 0.0486 | 0.0737 | 0.4082 | 0.3673 | -1815.8595 | -1726.6716
61 | XGBoost_normal_shuffled_default_model | 19.6163 | 0.0055 | -0.0175 | 0.0523 | 0.0447 | 0.0743 | 0.3987 | 0.3572 | -1810.1934 | -1721.0054
62 | XGBoost_normal_shuffled_rscv_model | 22.6011 | 0.0055 | -0.0101 | 0.0513 | 0.0975 | 0.0741 | 0.4011 | 0.3598 | -1811.6379 | -1722.4499
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65 | LightGradientBoosting_normal_shuffled_default_model | 20.1698 | 0.0054 | -0.0151 | 0.0510 | 0.0550 | 0.0732 | 0.4156 | 0.3752 | -1820.3479 | -1731.1600
66 | LightGradientBoosting_normal_shuffled_rscv_model | 20.1879 | 0.0051 | -0.0158 | 0.0494 | 0.0592 | 0.0717 | 0.4406 | 0.4020 | -1835.9733 | -1746.7853
67 | LightGradientBoosting_normal_shuffled_crosscv_model | 23.0826 | 0.0057 | 0.0009 | 0.0538 | 11.7946 | 0.0750 | 0.3650 | nan | nan | nan
68 | CategoricalGradientBoosting_normal_shuffled_default_model | 19.3327 | 0.0050 | -0.0144 | 0.0487 | 0.0551 | 0.0707 | 0.4554 | 0.4178 | -1845.5464 | -1756.3585
69 | CategoricalGradientBoosting_normal_shuffled_rscv_model | 18.2635 | 0.0052 | -0.0156 | 0.0497 | 0.0380 | 0.0721 | 0.4342 | 0.3951 | -1831.9311 | -1742.7431
70 | CategoricalGradientBoosting_normal_shuffled_crosscv_model | 23.8137 | 0.0054 | 0.0019 | 0.0504 | 13.7206 | 0.0733 | 0.3883 | nan | nan | nan
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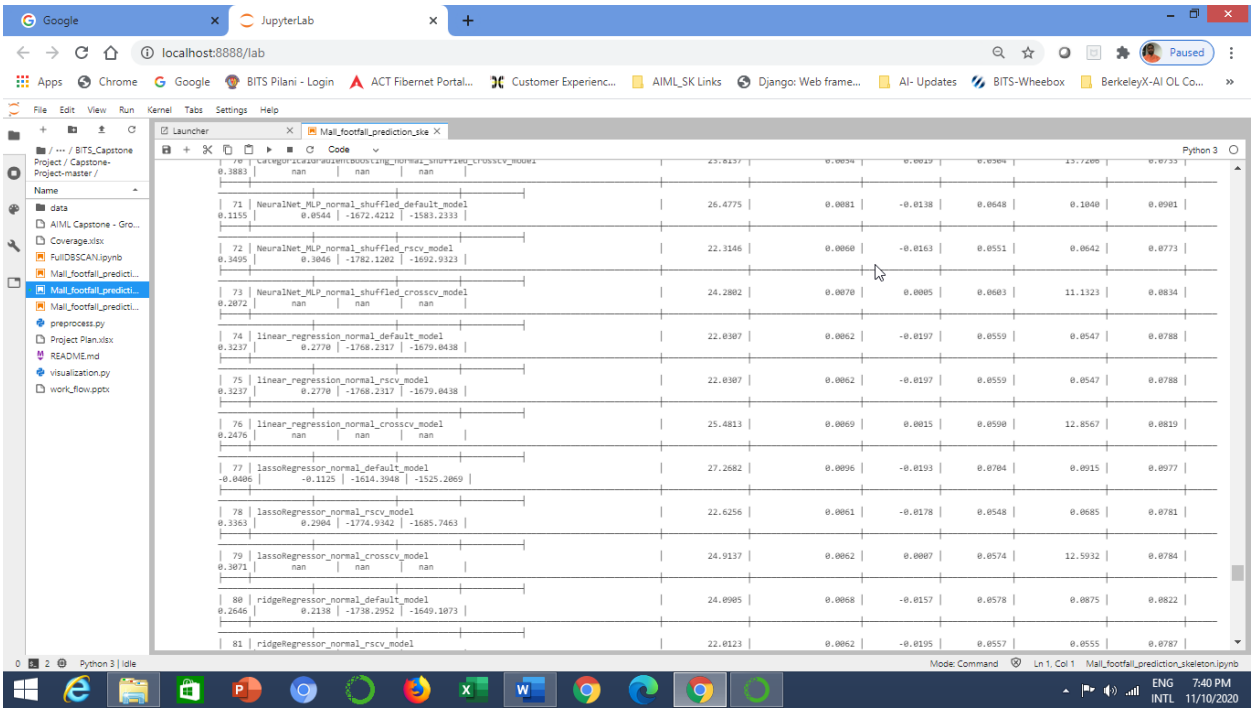
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71 | NeuralNet_MLP_normal_shuffled_default_model | 26.4775 | 0.0081 | -0.0138 | 0.0648 | 0.1040 | 0.0901 | 0.1155 | 0.0544 | -1672.4212 | -1583.2333
72 | NeuralNet_MLP_normal_shuffled_rscv_model | 22.3146 | 0.0060 | -0.0163 | 0.0551 | 0.0642 | 0.0773 | 0.3495 | 0.3046 | -1782.1202 | -1692.9323
73 | NeuralNet_MLP_normal_shuffled_crosscv_model | 24.2802 | 0.0070 | 0.0005 | 0.0603 | 11.1323 | 0.0834 | 0.2072 | nan | nan | nan
74 | linear_regression_normal_default_model | 22.0307 | 0.0062 | -0.0197 | 0.0559 | 0.0547 | 0.0788 | 0.3237 | 0.2770 | -1768.2317 | -1679.0438
75 | linear_regression_normal_rscv_model | 22.0307 | 0.0062 | -0.0197 | 0.0559 | 0.0547 | 0.0788 | 0.3237 | 0.2770 | -1768.2317 | -1679.0438
76 | linear_regression_normal_crosscv_model | 25.4813 | 0.0069 | 0.0015 | 0.0590 | 12.8567 | 0.0819 | 0.2476 | nan | nan | nan
77 | lassoRegressor_normal_default_model | 27.2682 | 0.0096 | -0.0193 | 0.0704 | 0.0915 | 0.0977 | -0.0406 | -0.1125 | -1614.3948 | -1525.2069
78 | lassoRegressor_normal_rscv_model | 22.6256 | 0.0061 | -0.0178 | 0.0548 | 0.0685 | 0.0781 | 0.3363 | 0.2904 | -1774.9342 | -1685.7463
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80 | ridgeRegressor_normal_default_model | 24.0905 | 0.0068 | -0.0157 | 0.0578 | 0.0875 | 0.0822 | 0.2646 | 0.2138 | -1738.2952 | -1649.1073
81 | ridgeRegressor_normal_rscv_model | 22.0123 | 0.0062 | -0.0195 | 0.0557 | 0.0555 | 0.0787
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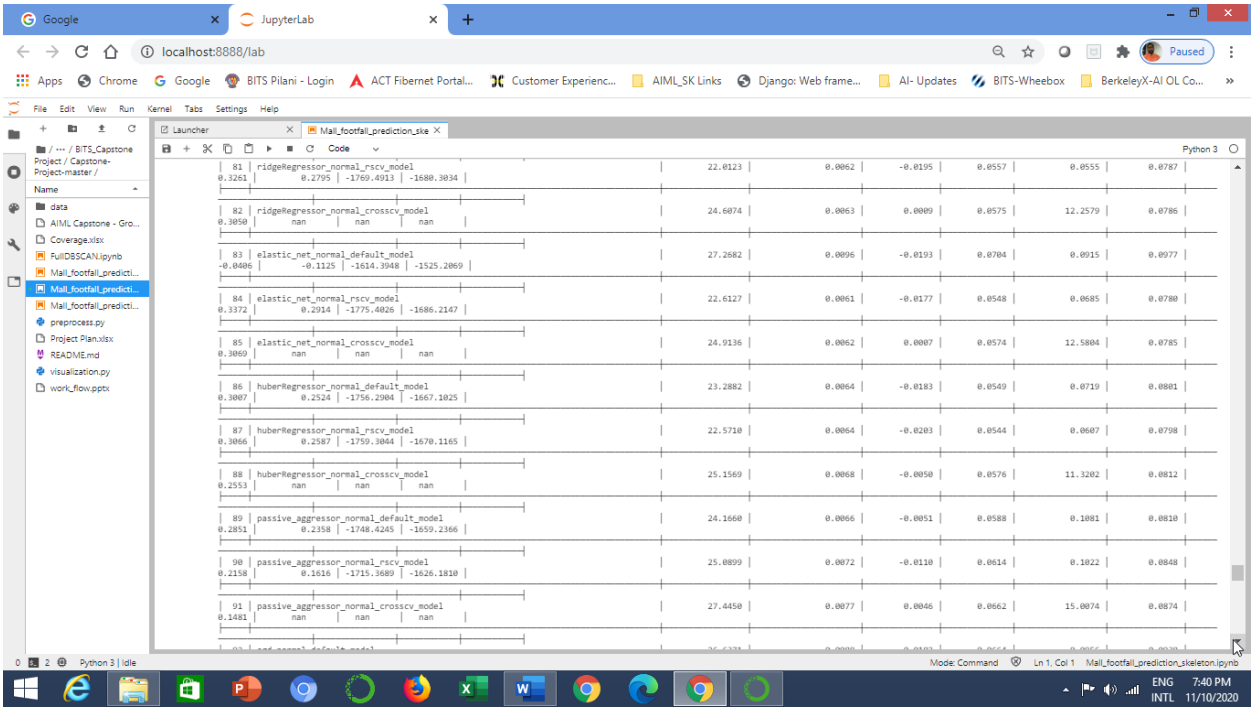
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81 | ridgeRegressor_normal_rscv_model | 0.3261 | 0.2795 | -1769.4913 | -1680.3034 | 22.0123 | 0.0062 | -0.0195 | 0.0557 | 0.0555 | 0.0787
82 | ridgeRegressor_normal_crosscv_model | 0.3050 | nan | nan | nan | 24.6074 | 0.0063 | 0.0009 | 0.0575 | 12.2579 | 0.0786
83 | elastic_net_normal_default_model | -0.0406 | -0.1125 | -1614.3948 | -1525.2069 | 27.2682 | 0.0096 | -0.0193 | 0.0704 | 0.0915 | 0.0977
84 | elastic_net_normal_rscv_model | 0.3372 | 0.2914 | -1775.4026 | -1686.2147 | 22.6127 | 0.0061 | -0.0177 | 0.0548 | 0.0685 | 0.0780
85 | elastic_net_normal_crosscv_model | 0.3069 | nan | nan | nan | 24.9136 | 0.0062 | 0.0007 | 0.0574 | 12.5804 | 0.0785
86 | huberRegressor_normal_default_model | 0.3007 | 0.2524 | -1756.2904 | -1667.1025 | 23.2882 | 0.0064 | -0.0183 | 0.0549 | 0.0719 | 0.0801
87 | huberRegressor_normal_rscv_model | 0.3066 | 0.2587 | -1759.3044 | -1670.1165 | 22.5710 | 0.0064 | -0.0203 | 0.0544 | 0.0607 | 0.0798
88 | huberRegressor_normal_crosscv_model | 0.2553 | nan | nan | nan | 25.1569 | 0.0068 | -0.0050 | 0.0576 | 11.3202 | 0.0812
89 | passive_aggressor_normal_default_model | 0.2851 | 0.2358 | -1748.4245 | -1659.2366 | 24.1660 | 0.0066 | -0.0051 | 0.0588 | 0.1081 | 0.0810
90 | passive_aggressor_normal_rscv_model | 0.2158 | 0.1616 | -1715.3689 | -1626.1810 | 25.0899 | 0.0072 | -0.0110 | 0.0614 | 0.1022 | 0.0848
91 | passive_aggressor_normal_crosscv_model | 0.1481 | nan | nan | nan | 27.4450 | 0.0077 | 0.0046 | 0.0662 | 15.0074 | 0.0874
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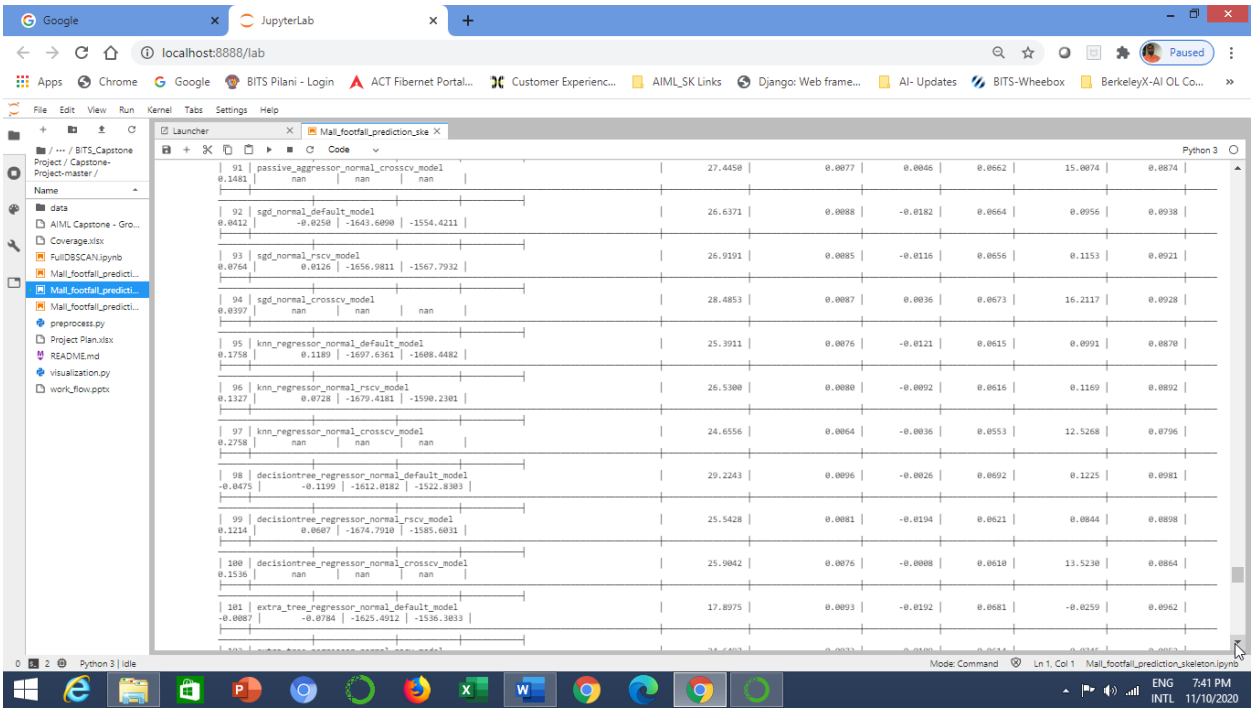
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92 | sgd_normal_default_model | 0.0412 | -0.0250 | -1643.6090 | -1554.4211 | 26.6371 | 0.0088 | -0.0182 | 0.0664 | 0.0956 | 0.0938
93 | sgd_normal_rscv_model | 0.0764 | 0.0128 | -1656.9811 | -1567.7932 | 26.9191 | 0.0085 | -0.0116 | 0.0656 | 0.1153 | 0.0921
94 | sgd_normal_crosscv_model | 0.0397 | nan | nan | nan | 28.4853 | 0.0087 | 0.0036 | 0.0673 | 16.2117 | 0.0928
95 | knn_regressor_normal_default_model | 0.1758 | 0.1189 | -1697.6361 | -1608.4482 | 25.3911 | 0.0076 | -0.0121 | 0.0615 | 0.0991 | 0.0870
96 | knn_regressor_normal_rscv_model | 0.1327 | 0.0728 | -1679.4181 | -1590.2301 | 26.5300 | 0.0080 | -0.0092 | 0.0616 | 0.1169 | 0.0892
97 | knn_regressor_normal_crosscv_model | 0.2758 | nan | nan | nan | 24.6556 | 0.0064 | -0.0036 | 0.0553 | 12.5268 | 0.0796
98 | decisiontree_regressor_normal_default_model | -0.0475 | -0.1199 | -1612.0182 | -1522.8303 | 29.2243 | 0.0096 | -0.0026 | 0.0692 | 0.1225 | 0.0981
99 | decisiontree_regressor_normal_rscv_model | 0.1214 | 0.0607 | -1674.7910 | -1585.6031 | 25.5428 | 0.0081 | -0.0194 | 0.0621 | 0.0844 | 0.0898
100 | decisiontree_regressor_normal_crosscv_model | 0.1536 | nan | nan | nan | 25.9042 | 0.0076 | -0.0008 | 0.0610 | 13.5230 | 0.0864
101 | extra_tree_regressor_normal_default_model | -0.0087 | -0.0784 | -1625.4912 | -1536.3033 | 17.8975 | 0.0093 | -0.0192 | 0.0681 | -0.0259 | 0.0962
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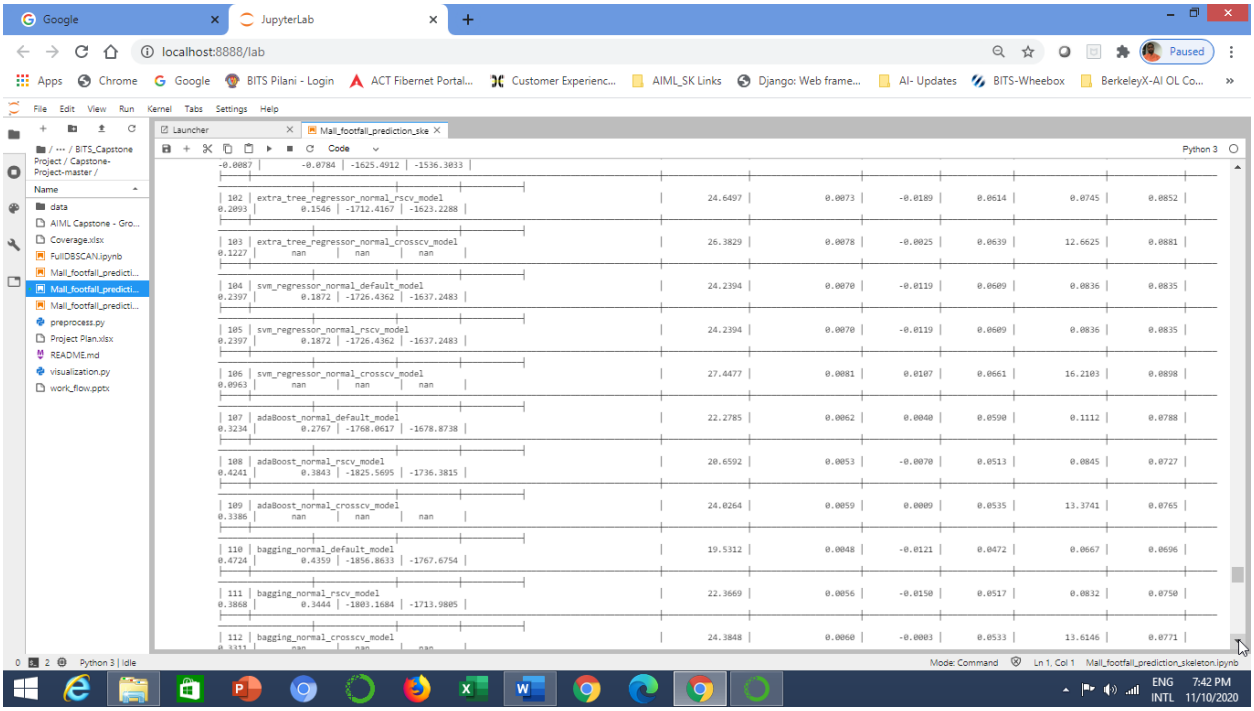
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0.1227 | nan | nan | nan
104 | svm_regressor_normal_default_model | 24.2394 | 0.0070 | -0.0119 | 0.0609 | 0.0836 | 0.0835
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105 | svm_regressor_normal_rscv_model | 24.2394 | 0.0070 | -0.0119 | 0.0609 | 0.0836 | 0.0835
0.2397 | 0.1872 | -1726.4362 | -1637.2483
106 | svm_regressor_normal_crosscv_model | 27.4477 | 0.0081 | 0.0107 | 0.0661 | 16.2103 | 0.0898
0.0963 | nan | nan | nan
107 | adaBoost_normal_default_model | 22.2785 | 0.0062 | 0.0040 | 0.0590 | 0.1112 | 0.0788
0.3234 | 0.2767 | -1768.0617 | -1678.8738
108 | adaBoost_normal_rscv_model | 20.6592 | 0.0053 | -0.0070 | 0.0513 | 0.0845 | 0.0727
0.4241 | 0.3843 | -1825.5695 | -1736.3815
109 | adaBoost_normal_crosscv_model | 24.0264 | 0.0059 | 0.0009 | 0.0535 | 13.3741 | 0.0765
0.3386 | nan | nan | nan
110 | bagging_normal_default_model | 19.5312 | 0.0048 | -0.0121 | 0.0472 | 0.0667 | 0.0696
0.4724 | 0.4359 | -1856.8633 | -1767.6754
111 | bagging_normal_rscv_model | 22.3669 | 0.0056 | -0.0150 | 0.0517 | 0.0832 | 0.0750
0.3868 | 0.3444 | -1803.1684 | -1713.9805
112 | bagging_normal_crosscv_model | 24.3848 | 0.0060 | -0.0003 | 0.0533 | 13.6146 | 0.0771
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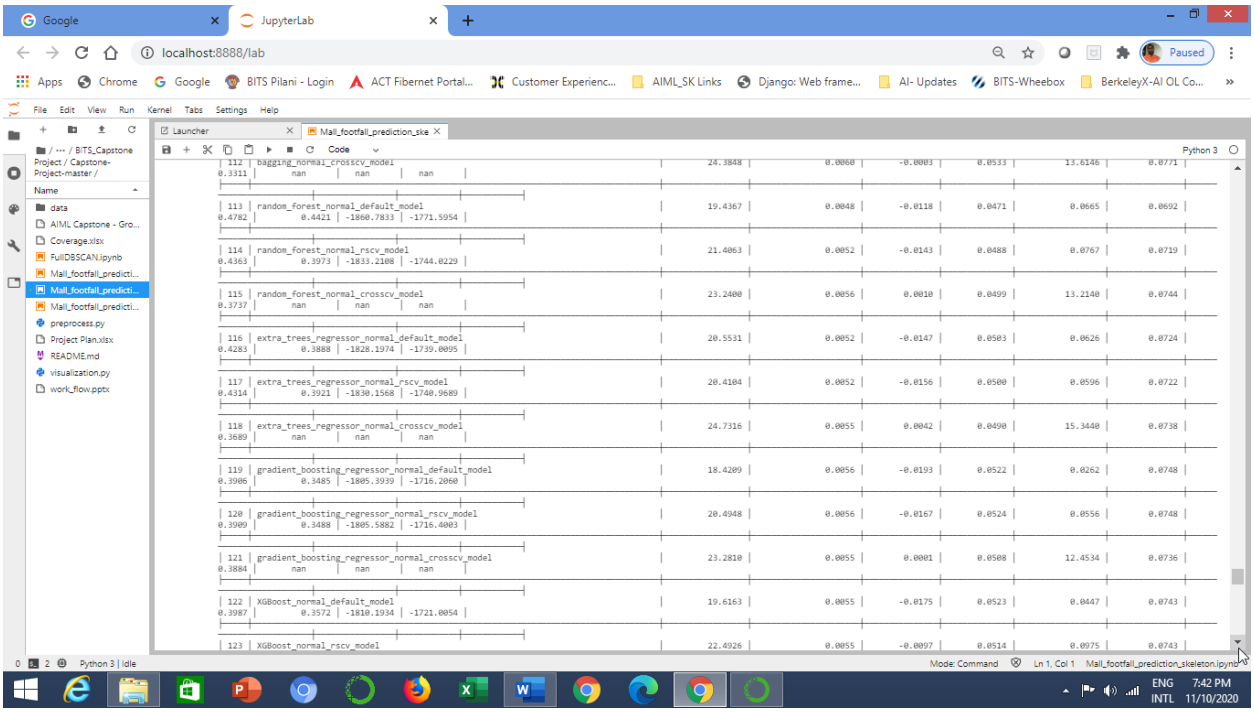
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112 | bagging_normal_crosscv_model | 24.3848 | 0.0060 | -0.0003 | 0.0533 | 13.6146 | 0.0771
0.3311 | nan | nan | nan
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0.4782 | 0.4421 | -1860.7833 | -1771.5954
114 | random_forest_normal_rscv_model | 21.4063 | 0.0052 | -0.0143 | 0.0488 | 0.0767 | 0.0719
0.4363 | 0.3973 | -1833.2108 | -1744.0229
115 | random_forest_normal_crosscv_model | 23.2400 | 0.0056 | 0.0010 | 0.0499 | 13.2140 | 0.0744
0.3737 | nan | nan | nan
116 | extra_trees_regressor_normal_default_model | 20.5531 | 0.0052 | -0.0147 | 0.0503 | 0.0626 | 0.0724
0.4283 | 0.3888 | -1828.1974 | -1739.0095
117 | extra_trees_regressor_normal_rscv_model | 20.4104 | 0.0052 | -0.0156 | 0.0500 | 0.0596 | 0.0722
0.4314 | 0.3921 | -1830.1568 | -1740.9689
118 | extra_trees_regressor_normal_crosscv_model | 24.7316 | 0.0055 | 0.0042 | 0.0490 | 15.3440 | 0.0738
0.3689 | nan | nan | nan
119 | gradient_boosting_regressor_normal_default_model | 18.4209 | 0.0056 | -0.0193 | 0.0522 | 0.0262 | 0.0748
0.3906 | 0.3485 | -1805.3939 | -1716.2060
120 | gradient_boosting_regressor_normal_rscv_model | 20.4948 | 0.0056 | -0.0167 | 0.0524 | 0.0556 | 0.0748
0.3909 | 0.3488 | -1805.5882 | -1716.4003
121 | gradient_boosting_regressor_normal_crosscv_model | 23.2810 | 0.0055 | 0.0001 | 0.0508 | 12.4534 | 0.0736
0.3884 | nan | nan | nan
122 | XGBoost_normal_default_model | 19.6163 | 0.0055 | -0.0175 | 0.0523 | 0.0447 | 0.0743
0.3987 | 0.3572 | -1810.1934 | -1721.0054
123 | XGBoost_normal_rscv_model | 22.4926 | 0.0055 | -0.0097 | 0.0514 | 0.0975 | 0.0743
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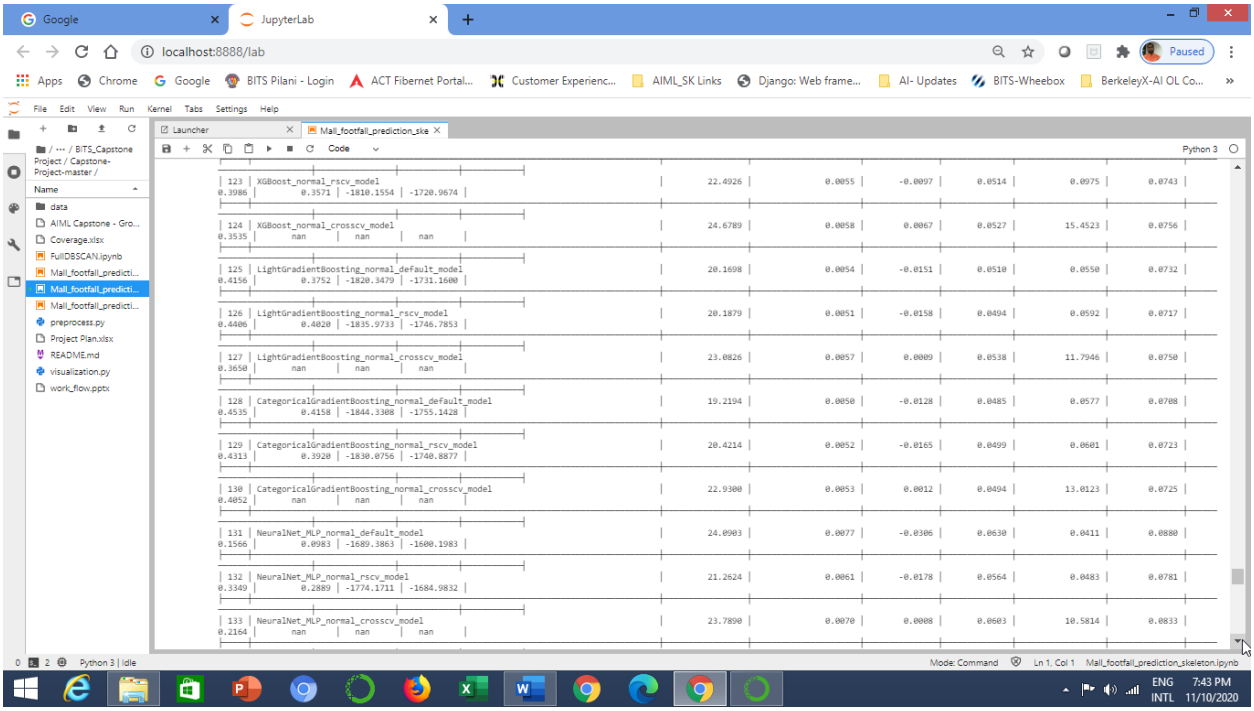

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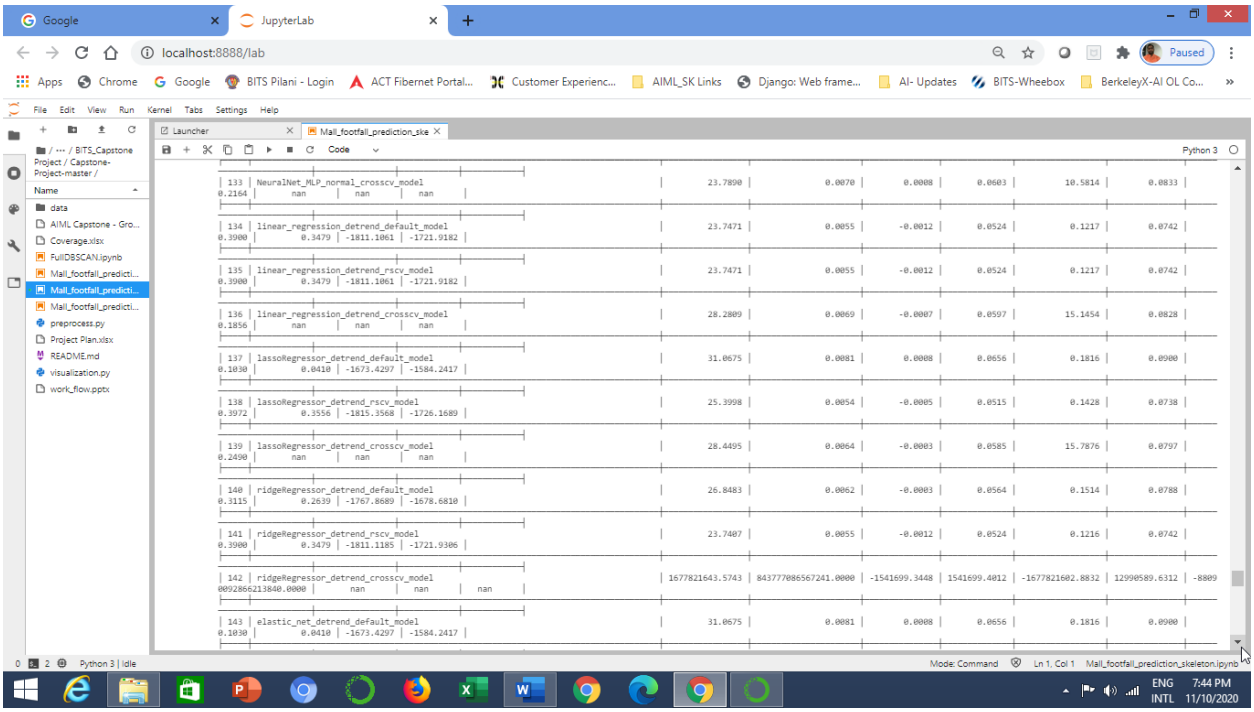
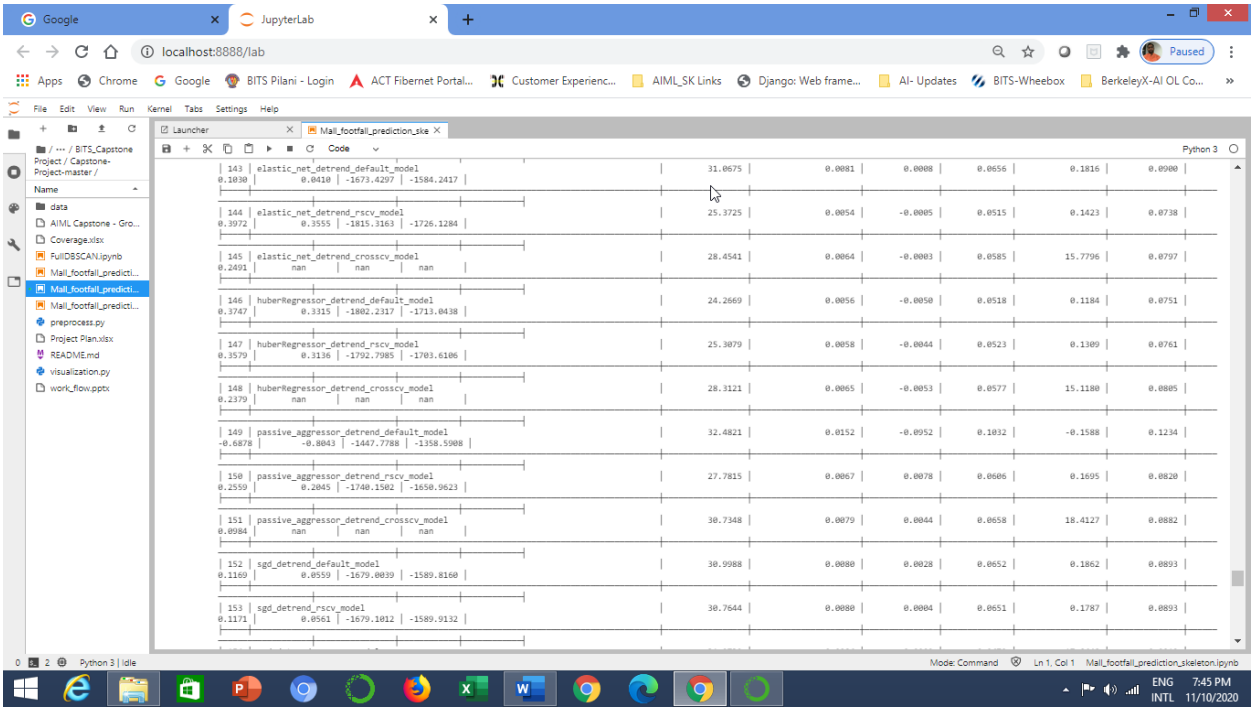
125	LightGradientBoosting_normal_default_model	20.1698	0.0054	-0.0151	0.0510	0.0550	0.0732	0.4156	0.3752	-1820.3479	-1731.1600
126	LightGradientBoosting_normal_rscv_model	20.1879	0.0051	-0.0158	0.0494	0.0592	0.0717	0.4406	0.4020	-1835.9733	-1746.7853
127	LightGradientBoosting_normal_crosscv_model	23.0826	0.0057	0.0009	0.0538	11.7946	0.0750	0.3650	nan	nan	nan
128	CategoricalGradientBoosting_normal_default_model	19.2194	0.0050	-0.0128	0.0485	0.0577	0.0708	0.4535	0.4158	-1844.3308	-1755.1428
129	CategoricalGradientBoosting_normal_rscv_model	20.4214	0.0052	-0.0165	0.0499	0.0601	0.0723	0.4313	0.3920	-1830.0756	-1740.8877
130	CategoricalGradientBoosting_normal_crosscv_model	22.9300	0.0053	0.0012	0.0494	13.0123	0.0725	0.4052	nan	nan	nan
131	NeuralNet_MLP_normal_default_model	24.0903	0.0077	-0.0306	0.0630	0.0411	0.0880	0.1566	0.0983	-1689.3863	-1600.1983
132	NeuralNet_MLP_normal_rscv_model	21.2624	0.0061	-0.0178	0.0564	0.0483	0.0781	0.3349	0.2889	-1774.1711	-1684.9832
133	NeuralNet_MLP_normal_crosscv_model	23.7890	0.0070	0.0008	0.0603	10.5814	0.0833	0.2164	nan	nan	nan



133	NeuralNet_MLP_normal_crosscv_model	23.7890	0.0070	0.0008	0.0603	10.5814	0.0833	0.2164	nan	nan	nan
134	linear_regression_detrend_default_model	23.7471	0.0055	-0.0012	0.0524	0.1217	0.0742	0.3900	0.3479	-1811.1061	-1721.9182
135	linear_regression_detrend_rscv_model	23.7471	0.0055	-0.0012	0.0524	0.1217	0.0742	0.3900	0.3479	-1811.1061	-1721.9182
136	linear_regression_detrend_crosscv_model	28.2809	0.0069	-0.0007	0.0597	15.1454	0.0828	0.1856	nan	nan	nan
137	lassoRegressor_detrend_default_model	31.0675	0.0081	0.0008	0.0656	0.1816	0.0900	0.1030	0.0410	-1673.4297	-1584.2417
138	lassoRegressor_detrend_rscv_model	25.3998	0.0054	-0.0005	0.0515	0.1428	0.0738	0.3972	0.3556	-1815.3568	-1726.1689
139	lassoRegressor_detrend_crosscv_model	28.4495	0.0064	-0.0003	0.0585	15.7876	0.0797	0.2490	nan	nan	nan
140	ridgeRegressor_detrend_default_model	26.8483	0.0062	-0.0003	0.0564	0.1514	0.0788	0.3115	0.2639	-1767.8689	-1678.6810
141	ridgeRegressor_detrend_rscv_model	23.7407	0.0055	-0.0012	0.0524	0.1216	0.0742	0.3900	0.3479	-1811.1185	-1721.9306
142	ridgeRegressor_detrend_crosscv_model	1677821643.5743	843777086567241.0000	-1541699.3448	1541699.4012	-1677821602.8832	12990589.6312	-8809	0092886213840.0000	nan	nan	nan
143	elastic_net_detrend_default_model	31.0675	0.0081	0.0008	0.0656	0.1816	0.0900	0.1030	0.0410	-1673.4297	-1584.2417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143 | elastic_net_detrend_default_model | 31.0675 | 0.0081 | 0.0008 | 0.0656 | 0.1816 | 0.0900 | 0.1030 | 0.0410 | -1673.4297 | -1584.2417 |
144 | elastic_net_detrend_rscv_model | 25.3725 | 0.0054 | -0.0005 | 0.0515 | 0.1423 | 0.0738 | 0.3972 | 0.3555 | -1815.3163 | -1726.1284 |
145 | elastic_net_detrend_crosscv_model | 28.4541 | 0.0064 | -0.0003 | 0.0585 | 15.7796 | 0.0797 | 0.2491 | nan | nan | nan |
146 | huberRegressor_detrend_default_model | 24.2669 | 0.0056 | -0.0050 | 0.0518 | 0.1184 | 0.0751 | 0.3747 | 0.3315 | -1802.2317 | -1713.0438 |
147 | huberRegressor_detrend_rscv_model | 25.3079 | 0.0058 | -0.0044 | 0.0523 | 0.1309 | 0.0761 | 0.3579 | 0.3136 | -1792.7985 | -1703.6106 |
148 | huberRegressor_detrend_crosscv_model | 28.3121 | 0.0065 | -0.0053 | 0.0577 | 15.1180 | 0.0805 | 0.2379 | nan | nan | nan |
149 | passive_aggressor_detrend_default_model | 32.4821 | 0.0152 | -0.0952 | 0.1032 | -0.1588 | 0.1234 | -0.6878 | -0.8043 | -1447.7788 | -1358.5908 |
150 | passive_aggressor_detrend_rscv_model | 27.7815 | 0.0067 | 0.0078 | 0.0606 | 0.1695 | 0.0820 | 0.2559 | 0.2045 | -1740.1502 | -1650.9623 |
151 | passive_aggressor_detrend_crosscv_model | 30.7348 | 0.0079 | 0.0044 | 0.0658 | 18.4127 | 0.0882 | 0.0984 | nan | nan | nan |
152 | sgd_detrend_default_model | 30.9988 | 0.0080 | 0.0028 | 0.0652 | 0.1862 | 0.0893 | 0.1169 | 0.0559 | -1679.0039 | -1589.8160 |
153 | sgd_detrend_rscv_model | 30.7644 | 0.0080 | 0.0004 | 0.0651 | 0.1787 | 0.0893 | 0.1171 | 0.0561 | -1679.1012 | -1589.9132 |
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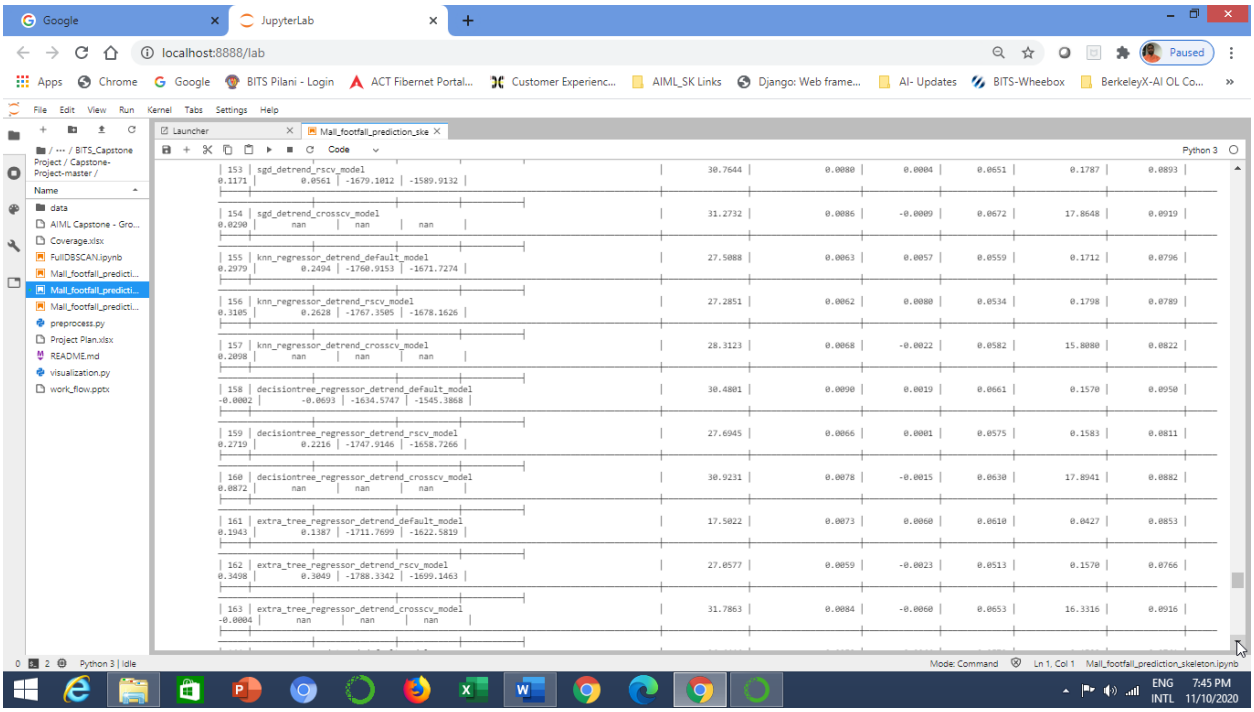
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154 | sgd_detrend_crosscv_model | 31.2732 | 0.0086 | -0.0009 | 0.0672 | 17.8648 | 0.0919 | 0.0290 | nan | nan | nan |
155 | knn_regressor_detrend_default_model | 27.5088 | 0.0063 | 0.0057 | 0.0559 | 0.1712 | 0.0796 | 0.2979 | 0.2494 | -1760.9153 | -1671.7274 |
156 | knn_regressor_detrend_rscv_model | 27.2851 | 0.0062 | 0.0080 | 0.0534 | 0.1798 | 0.0789 | 0.3105 | 0.2628 | -1767.3505 | -1678.1626 |
157 | knn_regressor_detrend_crosscv_model | 28.3123 | 0.0068 | -0.0022 | 0.0582 | 15.8080 | 0.0822 | 0.2098 | nan | nan | nan |
158 | decisiontree_regressor_detrend_default_model | 30.4801 | 0.0090 | 0.0019 | 0.0661 | 0.1570 | 0.0950 | -0.0002 | -0.0693 | -1634.5747 | -1545.3868 |
159 | decisiontree_regressor_detrend_rscv_model | 27.6945 | 0.0066 | 0.0001 | 0.0575 | 0.1583 | 0.0811 | 0.2719 | 0.2216 | -1747.9146 | -1658.7266 |
160 | decisiontree_regressor_detrend_crosscv_model | 30.9231 | 0.0078 | -0.0015 | 0.0630 | 17.8941 | 0.0882 | 0.0872 | nan | nan | nan |
161 | extra_tree_regressor_detrend_default_model | 17.5022 | 0.0073 | 0.0060 | 0.0610 | 0.0427 | 0.0853 | 0.1943 | 0.1387 | -1711.7699 | -1622.5819 |
162 | extra_tree_regressor_detrend_rscv_model | 27.0577 | 0.0059 | -0.0023 | 0.0513 | 0.1570 | 0.0766 | 0.3498 | 0.3049 | -1788.3342 | -1699.1463 |
163 | extra_tree_regressor_detrend_crosscv_model | 31.7863 | 0.0084 | -0.0060 | 0.0653 | 16.3316 | 0.0916 | -0.0004 | nan | nan | nan |
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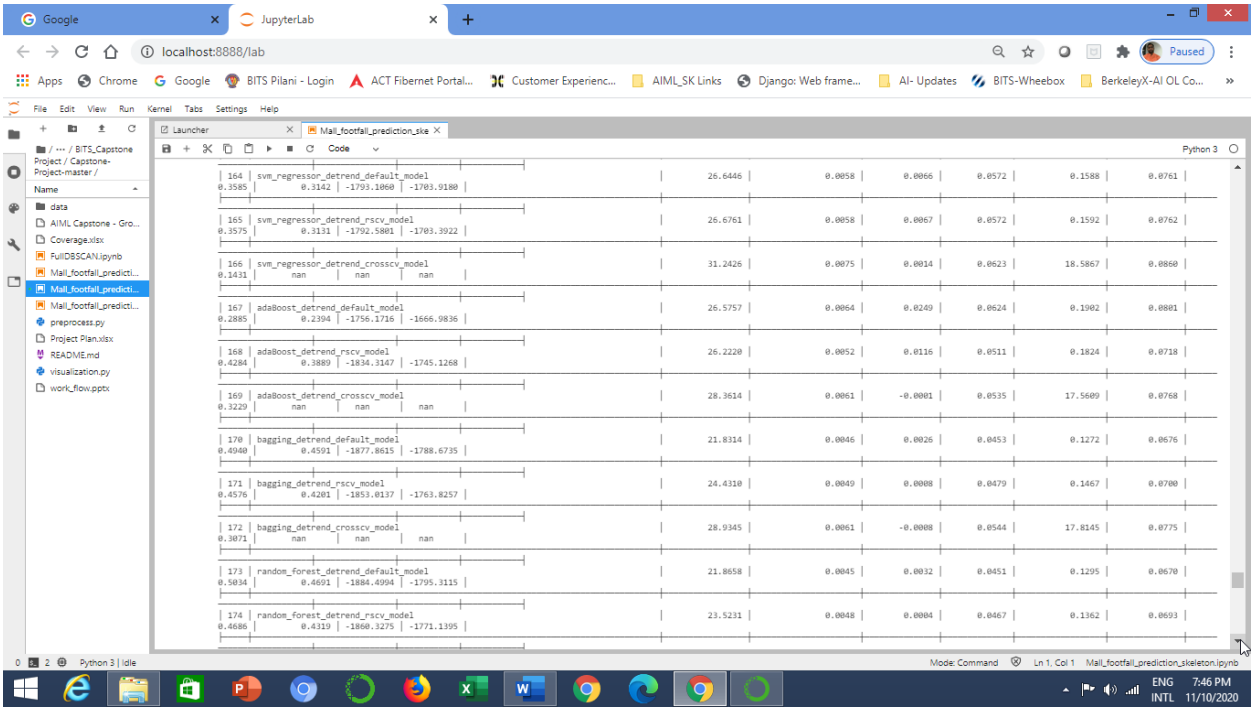
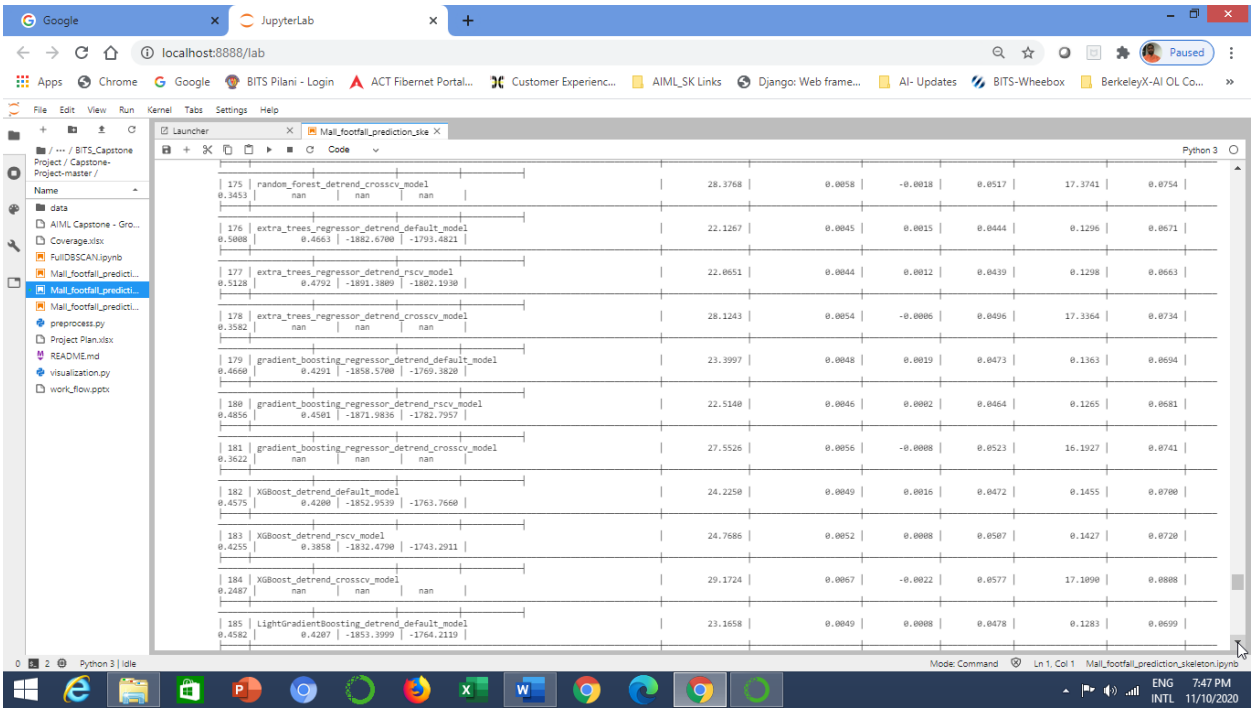


164	svm_regressor_detrend_default_model	26.6446	0.0058	0.0066	0.0572	0.1588	0.0761
0.3585	0.3142	-1793.1060	-1703.9180				
165	svm_regressor_detrend_rscv_model	26.6761	0.0058	0.0067	0.0572	0.1592	0.0762
0.3575	0.3131	-1792.5801	-1703.3922				
166	svm_regressor_detrend_crosscv_model	31.2426	0.0075	0.0014	0.0623	18.5867	0.0860
0.1431	nan	nan	nan				
167	adaBoost_detrend_default_model	26.5757	0.0064	0.0249	0.0624	0.1902	0.0801
0.2885	0.2394	-1756.1716	-1666.9836				
168	adaBoost_detrend_rscv_model	26.2220	0.0052	0.0116	0.0511	0.1824	0.0718
0.4284	0.3889	-1834.3147	-1745.1268				
169	adaBoost_detrend_crosscv_model	28.3614	0.0061	-0.0001	0.0535	17.5609	0.0768
0.3229	nan	nan	nan				
170	bagging_detrend_default_model	21.8314	0.0046	0.0026	0.0453	0.1272	0.0676
0.4940	0.4591	-1877.8615	-1788.6735				
171	bagging_detrend_rscv_model	24.4310	0.0049	0.0008	0.0479	0.1467	0.0700
0.4576	0.4201	-1853.0137	-1763.8257				
172	bagging_detrend_crosscv_model	28.9345	0.0061	-0.0008	0.0544	17.8145	0.0775
0.3071	nan	nan	nan				
173	random_forest_detrend_default_model	21.8658	0.0045	0.0032	0.0451	0.1295	0.0670
0.5034	0.4691	-1884.4994	-1795.3115				
174	random_forest_detrend_rscv_model	23.5231	0.0048	0.0004	0.0467	0.1362	0.0693
0.4686	0.4319	-1860.3275	-1771.1395				



175	random_forest_detrend_crosscv_model	28.3768	0.0058	-0.0018	0.0517	17.3741	0.0754
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176	extra_trees_regressor_detrend_default_model	22.1267	0.0045	0.0015	0.0444	0.1296	0.0671
0.5008	0.4663	-1882.6700	-1793.4821				
177	extra_trees_regressor_detrend_rscv_model	22.0651	0.0044	0.0012	0.0439	0.1298	0.0663
0.5128	0.4792	-1891.3809	-1802.1930				
178	extra_trees_regressor_detrend_crosscv_model	28.1243	0.0054	-0.0006	0.0496	17.3364	0.0734
0.3582	nan	nan	nan				
179	gradient_boosting_regressor_detrend_default_model	23.3997	0.0048	0.0019	0.0473	0.1363	0.0694
0.4660	0.4291	-1858.5700	-1769.3820				
180	gradient_boosting_regressor_detrend_rscv_model	22.5140	0.0046	0.0002	0.0464	0.1265	0.0681
0.4856	0.4501	-1871.9836	-1782.7957				
181	gradient_boosting_regressor_detrend_crosscv_model	27.5526	0.0056	-0.0008	0.0523	16.1927	0.0741
0.3622	nan	nan	nan				
182	XGBoost_detrend_default_model	24.2250	0.0049	0.0016	0.0472	0.1455	0.0700
0.4575	0.4200	-1852.9539	-1763.7660				
183	XGBoost_detrend_rscv_model	24.7686	0.0052	0.0008	0.0507	0.1427	0.0720
0.4255	0.3858	-1832.4790	-1743.2911				
184	XGBoost_detrend_crosscv_model	29.1724	0.0067	-0.0022	0.0577	17.1090	0.0808
0.2487	nan	nan	nan				
185	LightGradientBoosting_detrend_default_model	23.1658	0.0049	0.0008	0.0478	0.1283	0.0699
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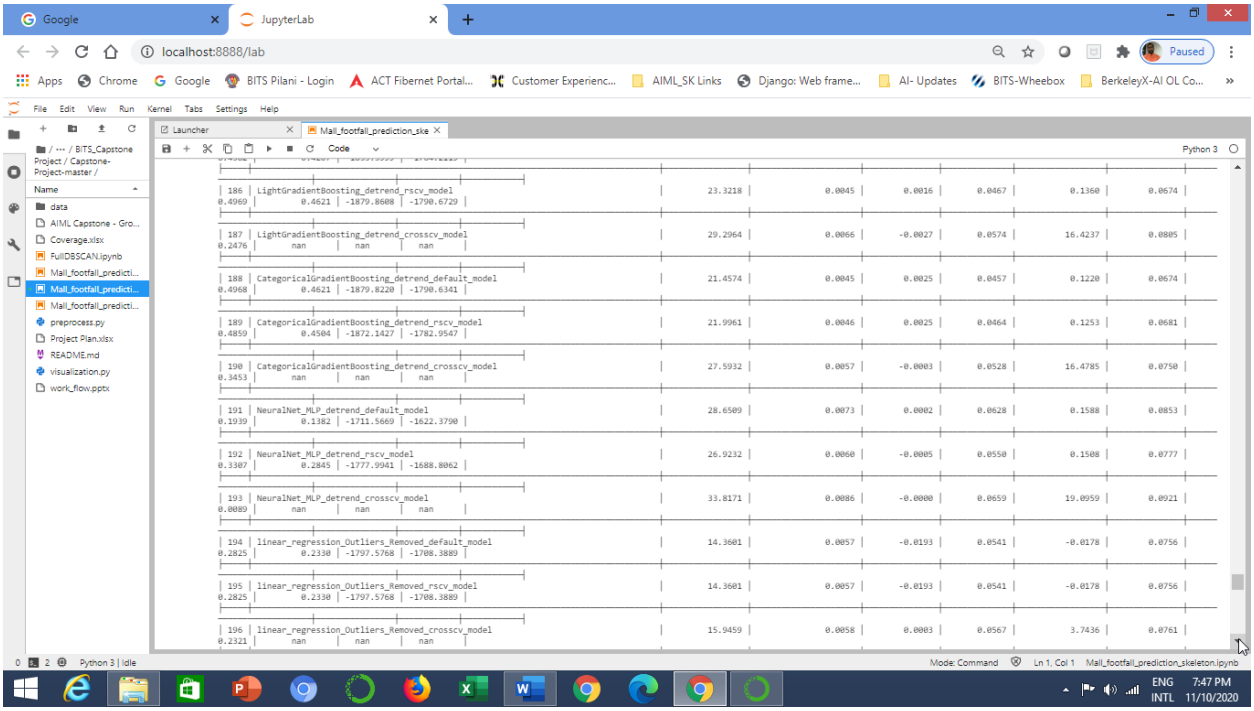
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| 186 | LightGradientBoosting_detrend_rscv_model | 23.3218 | 0.0045 | 0.0016 | 0.0467 | 0.1360 | 0.0674 |
0.4969 | 0.4621 | -1879.8608 | -1790.6729
| 187 | LightGradientBoosting_detrend_crosscv_model | 29.2964 | 0.0066 | -0.0027 | 0.0574 | 16.4237 | 0.0805 |
0.2476 | nan | nan | nan
| 188 | CategoricalGradientBoosting_detrend_default_model | 21.4574 | 0.0045 | 0.0025 | 0.0457 | 0.1220 | 0.0674 |
0.4968 | 0.4621 | -1879.8220 | -1790.6341
| 189 | CategoricalGradientBoosting_detrend_rscv_model | 21.9961 | 0.0046 | 0.0025 | 0.0464 | 0.1253 | 0.0681 |
0.4859 | 0.4504 | -1872.1427 | -1782.9547
| 190 | CategoricalGradientBoosting_detrend_crosscv_model | 27.5932 | 0.0057 | -0.0003 | 0.0528 | 16.4785 | 0.0750 |
0.3453 | nan | nan | nan
| 191 | NeuralNet_MLP_detrend_default_model | 28.6509 | 0.0073 | 0.0002 | 0.0628 | 0.1588 | 0.0853 |
0.1939 | 0.1382 | -1711.5669 | -1622.3790
| 192 | NeuralNet_MLP_detrend_rscv_model | 26.9232 | 0.0060 | -0.0005 | 0.0550 | 0.1508 | 0.0777 |
0.3307 | 0.2845 | -1777.9941 | -1688.8062
| 193 | NeuralNet_MLP_detrend_crosscv_model | 33.8171 | 0.0086 | -0.0000 | 0.0659 | 19.0959 | 0.0921 |
0.0089 | nan | nan | nan
| 194 | linear_regression_Outliers_Removed_default_model | 14.3601 | 0.0057 | -0.0193 | 0.0541 | -0.0178 | 0.0756 |
0.2825 | 0.2338 | -1797.5768 | -1708.3889
| 195 | linear_regression_Outliers_Removed_rscv_model | 14.3601 | 0.0057 | -0.0193 | 0.0541 | -0.0178 | 0.0756 |
0.2825 | 0.2338 | -1797.5768 | -1708.3889
| 196 | linear_regression_Outliers_Removed_crosscv_model | 15.9459 | 0.0058 | 0.0003 | 0.0567 | 3.7436 | 0.0761 |
0.2321 | nan | nan | nan
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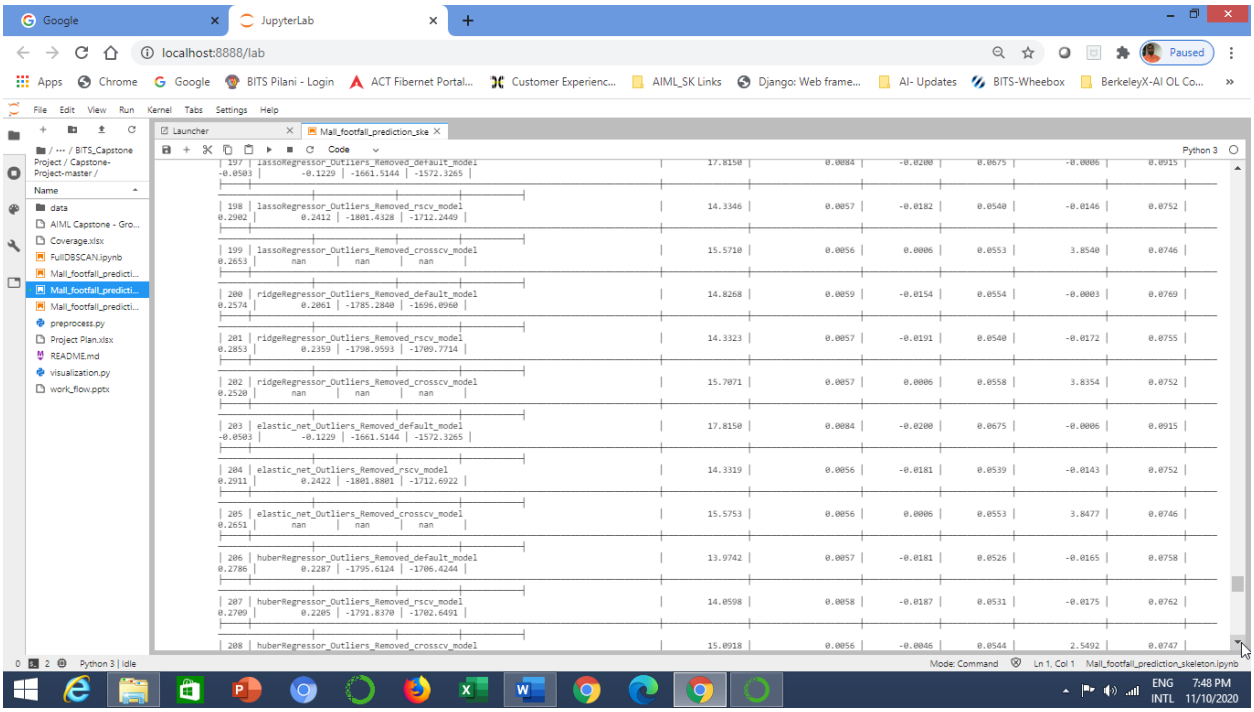
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| 197 | lassoRegressor_Outliers_Removed_default_model | 17.8150 | 0.0084 | -0.0200 | 0.0675 | -0.0006 | 0.0915 |
-0.0503 | -0.1229 | -1661.5144 | -1572.3265
| 198 | lassoRegressor_Outliers_Removed_rscv_model | 14.3346 | 0.0057 | -0.0182 | 0.0540 | -0.0146 | 0.0752 |
0.2902 | 0.2412 | -1801.4328 | -1712.2449
| 199 | lassoRegressor_Outliers_Removed_crosscv_model | 15.5710 | 0.0056 | 0.0006 | 0.0553 | 3.8540 | 0.0746 |
0.2653 | nan | nan | nan
| 200 | ridgeRegressor_Outliers_Removed_default_model | 14.8268 | 0.0059 | -0.0154 | 0.0554 | -0.0003 | 0.0769 |
0.2574 | 0.2061 | -1785.2840 | -1696.0960
| 201 | ridgeRegressor_Outliers_Removed_rscv_model | 14.3323 | 0.0057 | -0.0191 | 0.0540 | -0.0172 | 0.0755 |
0.2853 | 0.2359 | -1798.9593 | -1709.7714
| 202 | ridgeRegressor_Outliers_Removed_crosscv_model | 15.7071 | 0.0057 | 0.0006 | 0.0558 | 3.8354 | 0.0752 |
0.2528 | nan | nan | nan
| 203 | elastic_net_Outliers_Removed_default_model | 17.8150 | 0.0084 | -0.0200 | 0.0675 | -0.0006 | 0.0915 |
-0.0503 | -0.1229 | -1661.5144 | -1572.3265
| 204 | elastic_net_Outliers_Removed_rscv_model | 14.3319 | 0.0056 | -0.0181 | 0.0539 | -0.0143 | 0.0752 |
0.2911 | 0.2422 | -1801.8801 | -1712.6922
| 205 | elastic_net_Outliers_Removed_crosscv_model | 15.5753 | 0.0056 | 0.0006 | 0.0553 | 3.8477 | 0.0746 |
0.2651 | nan | nan | nan
| 206 | huberRegressor_Outliers_Removed_default_model | 13.9742 | 0.0057 | -0.0181 | 0.0526 | -0.0165 | 0.0758 |
0.2786 | 0.2287 | -1795.6124 | -1706.4244
| 207 | huberRegressor_Outliers_Removed_rscv_model | 14.0598 | 0.0058 | -0.0187 | 0.0531 | -0.0175 | 0.0762 |
0.2709 | 0.2205 | -1791.8370 | -1702.6491
| 208 | huberRegressor_Outliers_Removed_crosscv_model | 15.0918 | 0.0056 | -0.0046 | 0.0544 | 2.5492 | 0.0747 |
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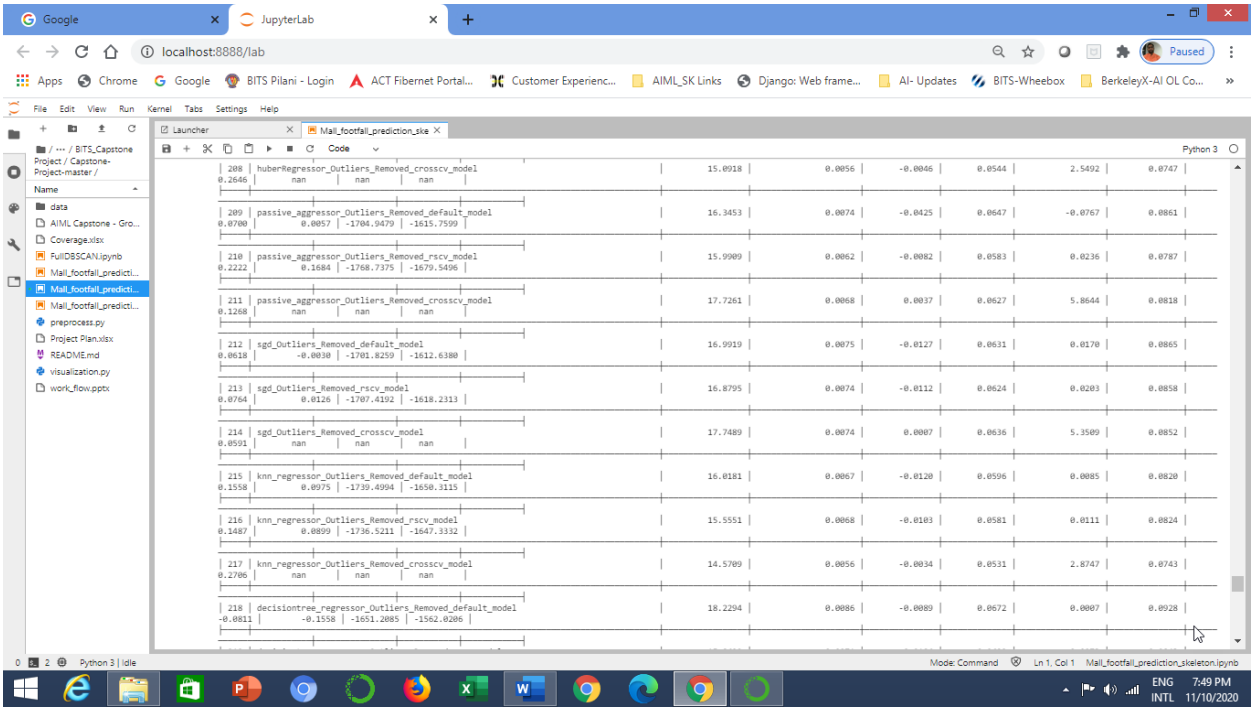
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208 | huberRegressor_Outliers_Removed_crosscv_model | 15.0918 | 0.0056 | -0.0046 | 0.0544 | 2.5492 | 0.0747 | 0.2646 | nan | nan | nan |
209 | passive_aggressor_Outliers_Removed_default_model | 16.3453 | 0.0074 | -0.0425 | 0.0647 | -0.0767 | 0.0861 | 0.0700 | 0.0057 | -1704.9479 | -1615.7599 |
210 | passive_aggressor_Outliers_Removed_rscv_model | 15.9909 | 0.0062 | -0.0082 | 0.0583 | 0.0236 | 0.0787 | 0.2222 | 0.1684 | -1768.7375 | -1679.5496 |
211 | passive_aggressor_Outliers_Removed_crosscv_model | 17.7261 | 0.0068 | 0.0037 | 0.0627 | 5.8644 | 0.0818 | 0.1268 | nan | nan | nan |
212 | sgd_Outliers_Removed_default_model | 16.9919 | 0.0075 | -0.0127 | 0.0631 | 0.0170 | 0.0865 | 0.0618 | -0.0030 | -1701.8259 | -1612.6380 |
213 | sgd_Outliers_Removed_rscv_model | 16.8795 | 0.0074 | -0.0112 | 0.0624 | 0.0203 | 0.0858 | 0.0764 | 0.0126 | -1707.4192 | -1618.2313 |
214 | sgd_Outliers_Removed_crosscv_model | 17.7489 | 0.0074 | 0.0007 | 0.0636 | 5.3509 | 0.0852 | 0.0591 | nan | nan | nan |
215 | knn_regressor_Outliers_Removed_default_model | 16.0181 | 0.0067 | -0.0120 | 0.0596 | 0.0085 | 0.0820 | 0.1558 | 0.0975 | -1739.4994 | -1650.3115 |
216 | knn_regressor_Outliers_Removed_rscv_model | 15.5551 | 0.0068 | -0.0103 | 0.0581 | 0.0111 | 0.0824 | 0.1487 | 0.0899 | -1736.5211 | -1647.3332 |
217 | knn_regressor_Outliers_Removed_crosscv_model | 14.5709 | 0.0056 | -0.0034 | 0.0531 | 2.8747 | 0.0743 | 0.2706 | nan | nan | nan |
218 | decisiontree_regressor_Outliers_Removed_default_model | 18.2294 | 0.0086 | -0.0089 | 0.0672 | 0.0007 | 0.0928 | -0.0811 | -0.1558 | -1651.2085 | -1562.0206 |
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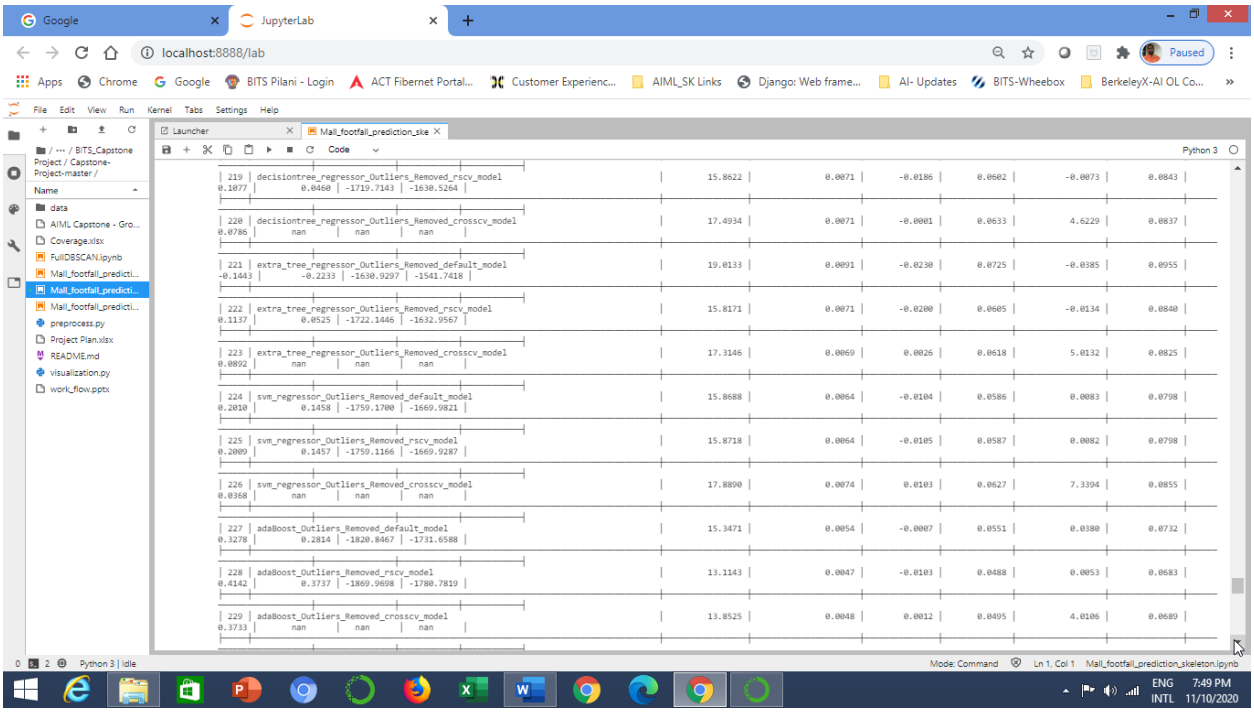
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219 | decisiontree_regressor_Outliers_Removed_rscv_model | 15.8622 | 0.0071 | -0.0186 | 0.0602 | -0.0073 | 0.0843 | 0.1077 | 0.0468 | -1719.7143 | -1630.5264 |
220 | decisiontree_regressor_Outliers_Removed_crosscv_model | 17.4934 | 0.0071 | -0.0001 | 0.0633 | 4.6229 | 0.0837 | 0.0786 | nan | nan | nan |
221 | extra_tree_regressor_Outliers_Removed_default_model | 19.0133 | 0.0091 | -0.0230 | 0.0725 | -0.0385 | 0.0955 | -0.1443 | -0.2233 | -1630.9297 | -1541.7418 |
222 | extra_tree_regressor_Outliers_Removed_rscv_model | 15.8171 | 0.0071 | -0.0200 | 0.0605 | -0.0134 | 0.0840 | 0.1137 | 0.0525 | -1722.1446 | -1632.9567 |
223 | extra_tree_regressor_Outliers_Removed_crosscv_model | 17.3146 | 0.0069 | 0.0026 | 0.0618 | 5.0132 | 0.0825 | 0.0892 | nan | nan | nan |
224 | svm_regressor_Outliers_Removed_default_model | 15.8588 | 0.0064 | -0.0104 | 0.0586 | 0.0083 | 0.0798 | 0.2010 | 0.1458 | -1759.1700 | -1669.9821 |
225 | svm_regressor_Outliers_Removed_rscv_model | 15.8718 | 0.0064 | -0.0105 | 0.0587 | 0.0082 | 0.0798 | 0.2009 | 0.1457 | -1759.1166 | -1669.9287 |
226 | svm_regressor_Outliers_Removed_crosscv_model | 17.8890 | 0.0074 | 0.0103 | 0.0627 | 7.3394 | 0.0855 | 0.0368 | nan | nan | nan |
227 | adaBoost_Outliers_Removed_default_model | 15.3471 | 0.0054 | -0.0007 | 0.0551 | 0.0380 | 0.0732 | 0.3278 | 0.2814 | -1820.8467 | -1731.6588 |
228 | adaBoost_Outliers_Removed_rscv_model | 13.1143 | 0.0047 | -0.0103 | 0.0488 | 0.0053 | 0.0683 | 0.4142 | 0.3737 | -1869.9698 | -1780.7819 |
229 | adaBoost_Outliers_Removed_crosscv_model | 13.8525 | 0.0048 | 0.0012 | 0.0495 | 4.0106 | 0.0689 | 0.3733 | nan | nan | nan |
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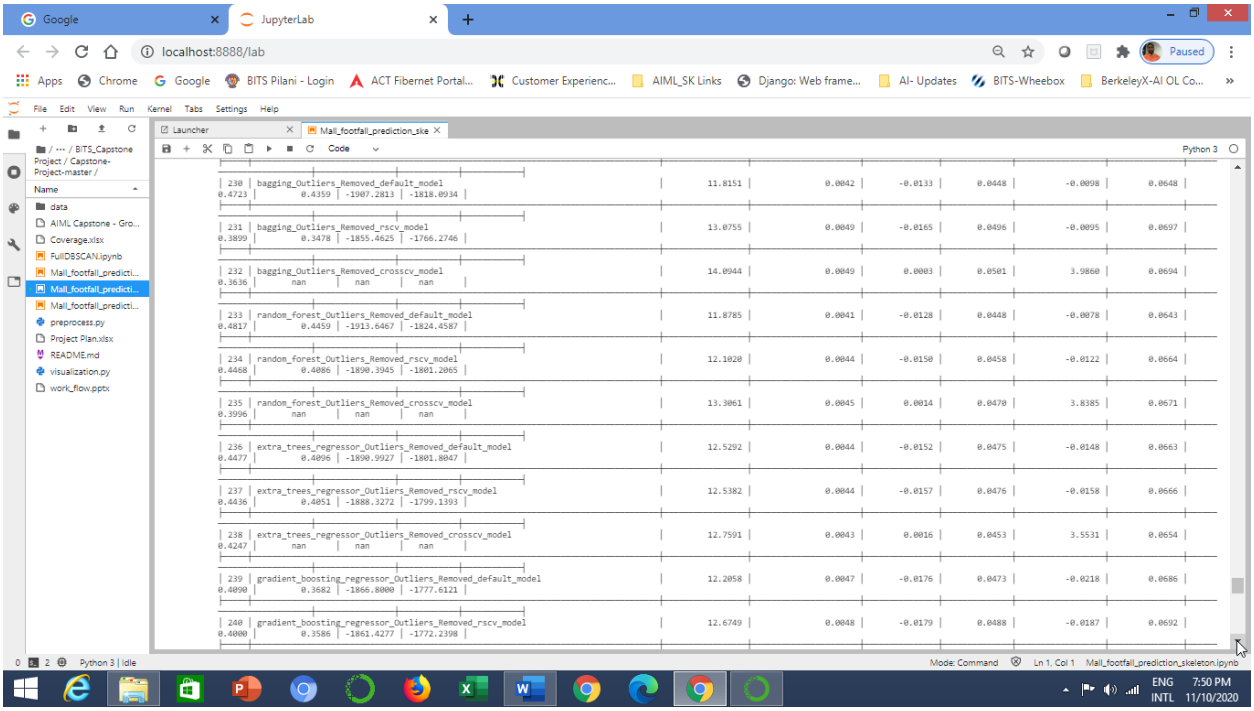
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230 | bagging_Outliers_Removed_default_model | 11.8151 | 0.0042 | -0.0133 | 0.0448 | -0.0098 | 0.0648 | 0.4723 | 0.4359 | -1907.2813 | -1818.0934
231 | bagging_Outliers_Removed_rscv_model | 13.0755 | 0.0049 | -0.0165 | 0.0496 | -0.0095 | 0.0697 | 0.3899 | 0.3478 | -1855.4625 | -1766.2746
232 | bagging_Outliers_Removed_crosscv_model | 14.0944 | 0.0049 | 0.0003 | 0.0501 | 3.9860 | 0.0694 | 0.3636 | nan | nan | nan
233 | random_forest_Outliers_Removed_default_model | 11.8785 | 0.0041 | -0.0128 | 0.0448 | -0.0078 | 0.0643 | 0.4817 | 0.4459 | -1913.6467 | -1824.4587
234 | random_forest_Outliers_Removed_rscv_model | 12.1020 | 0.0044 | -0.0150 | 0.0458 | -0.0122 | 0.0664 | 0.4468 | 0.4086 | -1890.3945 | -1801.2065
235 | random_forest_Outliers_Removed_crosscv_model | 13.3061 | 0.0045 | 0.0014 | 0.0470 | 3.8385 | 0.0671 | 0.3996 | nan | nan | nan
236 | extra_trees_regressor_Outliers_Removed_default_model | 12.5292 | 0.0044 | -0.0152 | 0.0475 | -0.0148 | 0.0663 | 0.4477 | 0.4096 | -1890.9927 | -1801.8047
237 | extra_trees_regressor_Outliers_Removed_rscv_model | 12.5382 | 0.0044 | -0.0157 | 0.0476 | -0.0158 | 0.0666 | 0.4436 | 0.4051 | -1888.3272 | -1799.1393
238 | extra_trees_regressor_Outliers_Removed_crosscv_model | 12.7591 | 0.0043 | 0.0016 | 0.0453 | 3.5531 | 0.0654 | 0.4247 | nan | nan | nan
239 | gradient_boosting_regressor_Outliers_Removed_default_model | 12.2058 | 0.0047 | -0.0176 | 0.0473 | -0.0218 | 0.0686 | 0.4090 | 0.3682 | -1866.8000 | -1777.6121
240 | gradient_boosting_regressor_Outliers_Removed_rscv_model | 12.6749 | 0.0048 | -0.0179 | 0.0488 | -0.0187 | 0.0692 | 0.4000 | 0.3586 | -1861.4277 | -1772.2398
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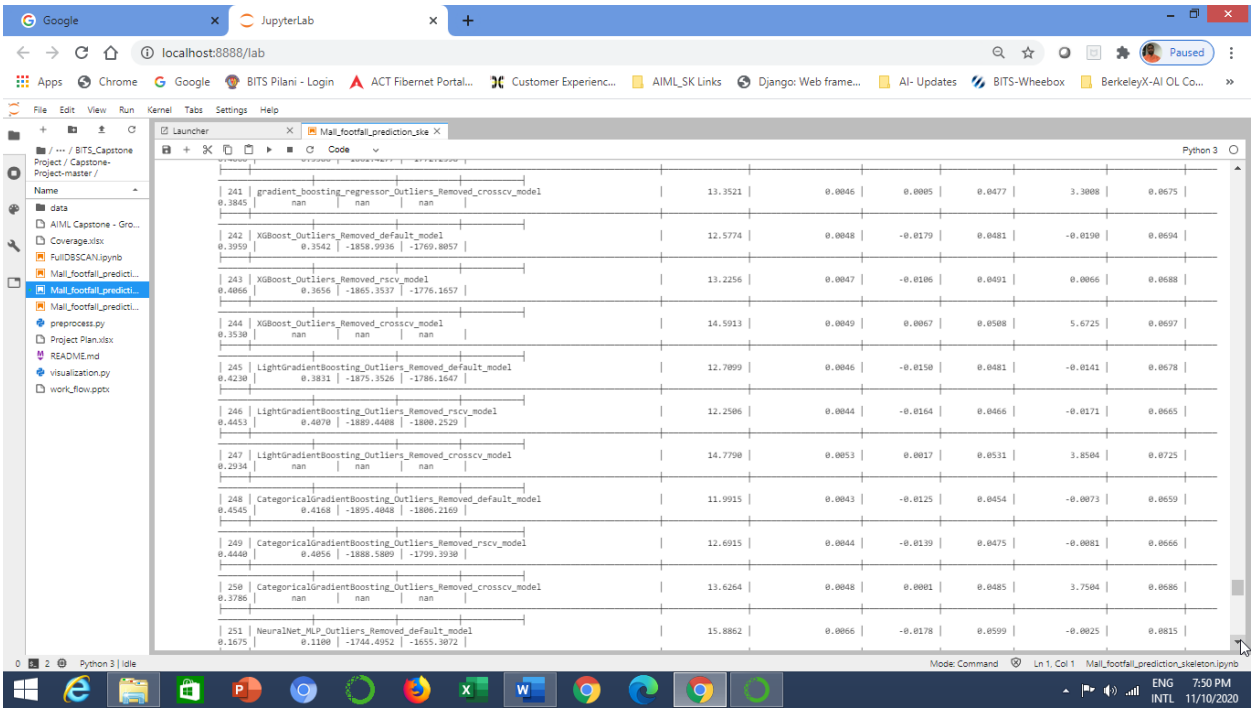
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241 | gradient_boosting_regressor_Outliers_Removed_crosscv_model | 13.3521 | 0.0046 | 0.0005 | 0.0477 | 3.3008 | 0.0675 | 0.3845 | nan | nan | nan
242 | XGBoost_Outliers_Removed_default_model | 12.5774 | 0.0048 | -0.0179 | 0.0481 | -0.0190 | 0.0694 | 0.3959 | 0.3542 | -1858.9936 | -1769.8057
243 | XGBoost_Outliers_Removed_rscv_model | 13.2256 | 0.0047 | -0.0106 | 0.0491 | 0.0066 | 0.0688 | 0.4066 | 0.3656 | -1865.3537 | -1776.1657
244 | XGBoost_Outliers_Removed_crosscv_model | 14.5913 | 0.0049 | 0.0067 | 0.0508 | 5.6725 | 0.0697 | 0.3530 | nan | nan | nan
245 | LightGradientBoosting_Outliers_Removed_default_model | 12.7099 | 0.0046 | -0.0150 | 0.0481 | -0.0141 | 0.0678 | 0.4230 | 0.3831 | -1875.3526 | -1786.1647
246 | LightGradientBoosting_Outliers_Removed_rscv_model | 12.2506 | 0.0044 | -0.0164 | 0.0466 | -0.0171 | 0.0665 | 0.4453 | 0.4070 | -1889.4408 | -1800.2529
247 | LightGradientBoosting_Outliers_Removed_crosscv_model | 14.7790 | 0.0053 | 0.0017 | 0.0531 | 3.8504 | 0.0725 | 0.2934 | nan | nan | nan
248 | CategoricalGradientBoosting_Outliers_Removed_default_model | 11.9915 | 0.0043 | -0.0125 | 0.0454 | -0.0073 | 0.0659 | 0.4545 | 0.4168 | -1895.4048 | -1806.2169
249 | CategoricalGradientBoosting_Outliers_Removed_rscv_model | 12.6915 | 0.0044 | -0.0139 | 0.0475 | -0.0081 | 0.0666 | 0.4440 | 0.4056 | -1888.5809 | -1799.3930
250 | CategoricalGradientBoosting_Outliers_Removed_crosscv_model | 13.6264 | 0.0048 | 0.0001 | 0.0485 | 3.7504 | 0.0686 | 0.3786 | nan | nan | nan
251 | NeuralNet_MLP_Outliers_Removed_default_model | 15.8862 | 0.0066 | -0.0178 | 0.0599 | -0.0025 | 0.0815 | 0.1675 | 0.1100 | -1744.4952 | -1655.3072
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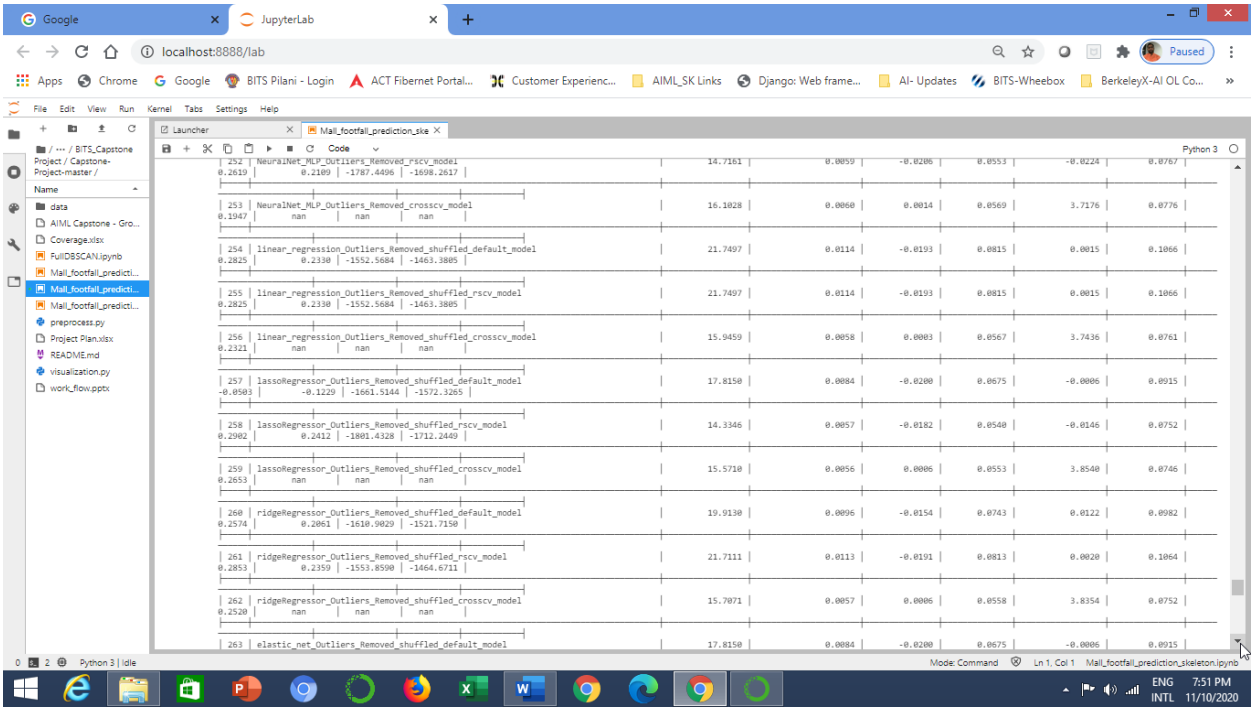
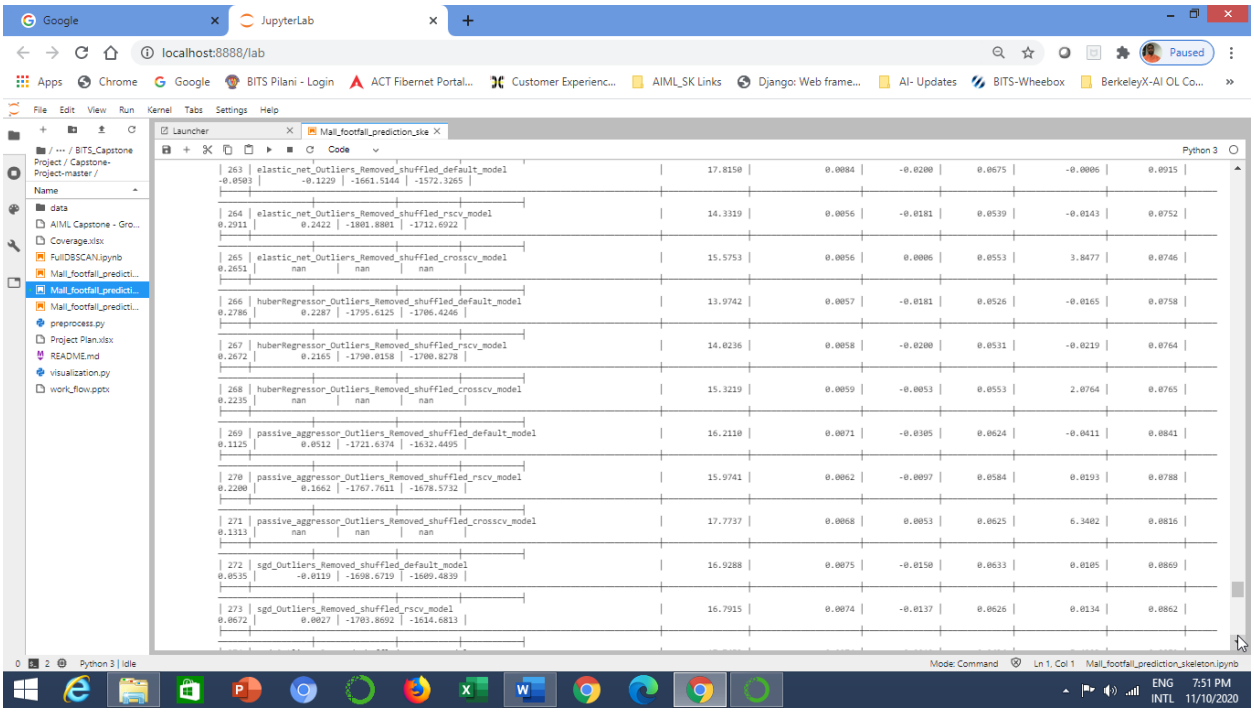
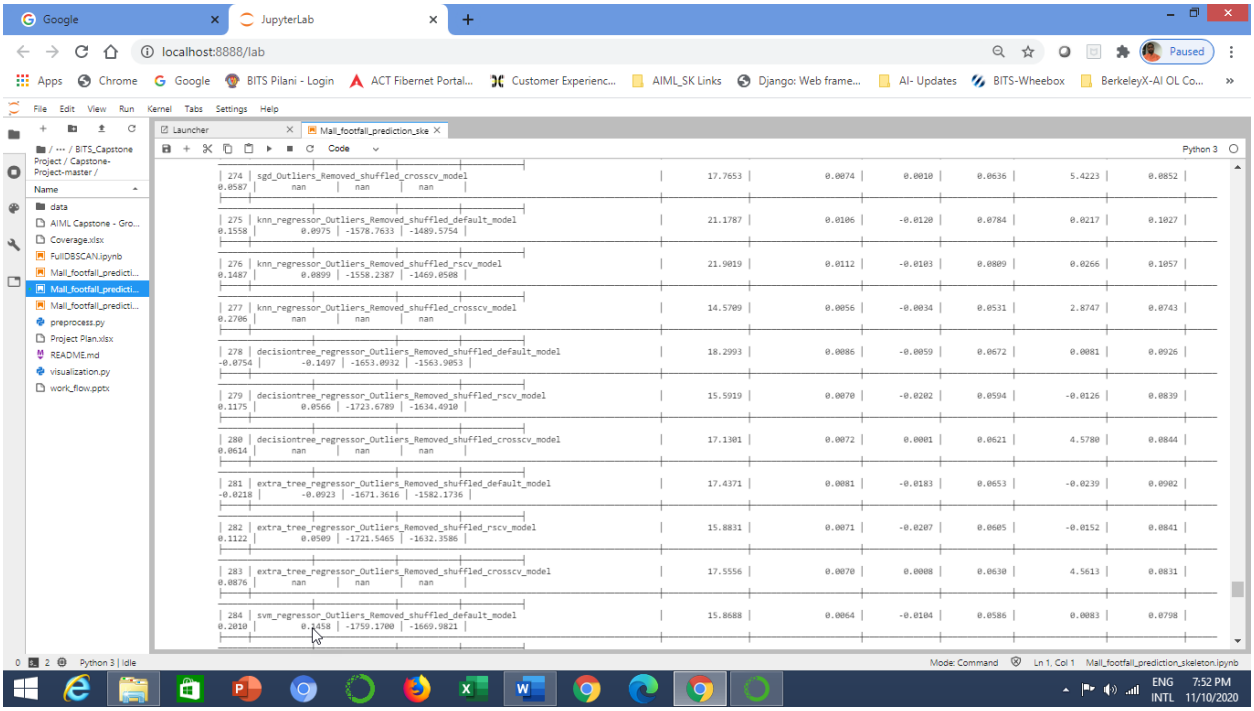


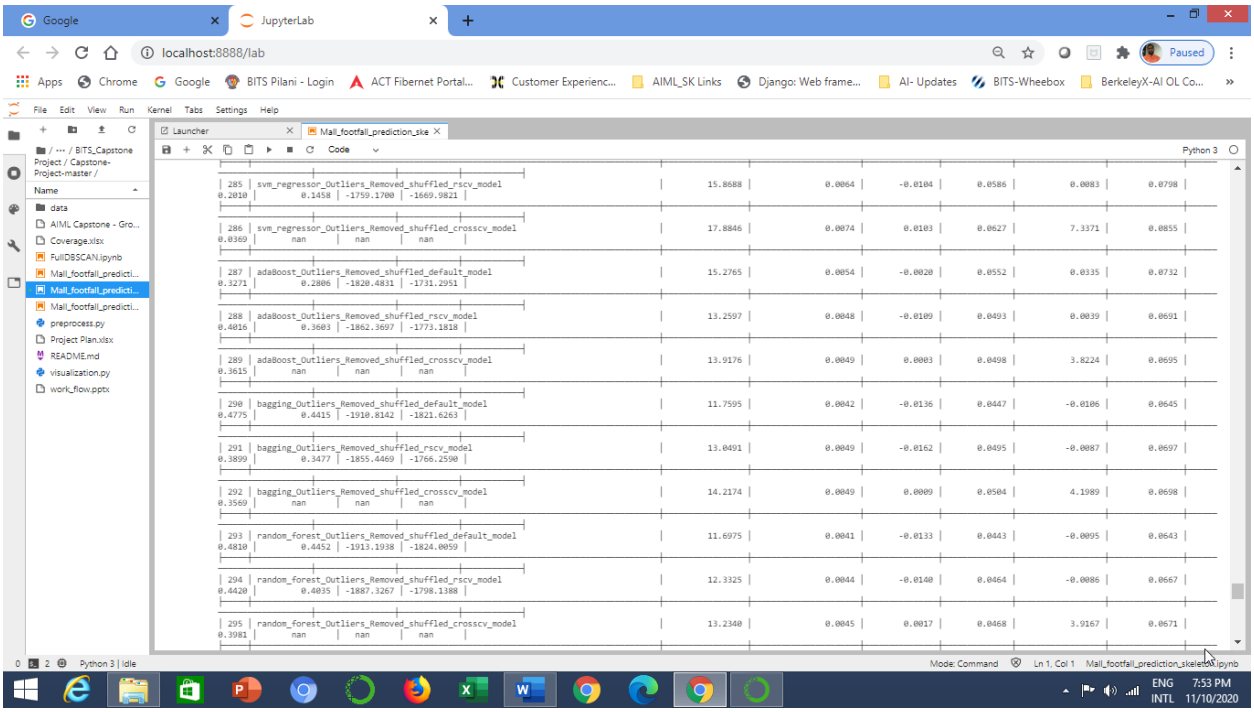
252	NeuralNet_MLP_Outliers_Removed_rscv_model	14.7161	0.0059	-0.0206	0.0553	-0.0224	0.0767
0.2619	0.2109	-1787.4496	-1698.2617				
253	NeuralNet_MLP_Outliers_Removed_crosscv_model	16.1028	0.0060	0.0014	0.0569	3.7176	0.0776
0.1947	nan	nan	nan				
254	linear_regression_Outliers_Removed_shuffled_default_model	21.7497	0.0114	-0.0193	0.0815	0.0015	0.1066
0.2825	0.2338	-1552.5684	-1463.3805				
255	linear_regression_Outliers_Removed_shuffled_rscv_model	21.7497	0.0114	-0.0193	0.0815	0.0015	0.1066
0.2825	0.2338	-1552.5684	-1463.3805				
256	linear_regression_Outliers_Removed_shuffled_crosscv_model	15.9459	0.0058	0.0003	0.0567	3.7436	0.0761
0.2321	nan	nan	nan				
257	lassoRegressor_Outliers_Removed_shuffled_default_model	17.8150	0.0084	-0.0200	0.0675	-0.0006	0.0915
-0.0503	-0.1229	-1661.5144	-1572.3265				
258	lassoRegressor_Outliers_Removed_shuffled_rscv_model	14.3346	0.0057	-0.0182	0.0540	-0.0146	0.0752
0.2902	0.2412	-1801.4328	-1712.2449				
259	lassoRegressor_Outliers_Removed_shuffled_crosscv_model	15.5710	0.0056	0.0006	0.0553	3.8548	0.0746
0.2653	nan	nan	nan				
260	ridgeRegressor_Outliers_Removed_shuffled_default_model	19.9130	0.0096	-0.0154	0.0743	0.0122	0.0982
0.2574	0.2061	-1610.9029	-1521.7150				
261	ridgeRegressor_Outliers_Removed_shuffled_rscv_model	21.7111	0.0113	-0.0191	0.0813	0.0020	0.1064
0.2853	0.2359	-1553.8590	-1464.6711				
262	ridgeRegressor_Outliers_Removed_shuffled_crosscv_model	15.7071	0.0057	0.0006	0.0558	3.8354	0.0752
0.2520	nan	nan	nan				
263	elastic_net_Outliers_Removed_shuffled_default_model	17.8150	0.0084	-0.0200	0.0675	-0.0006	0.0915



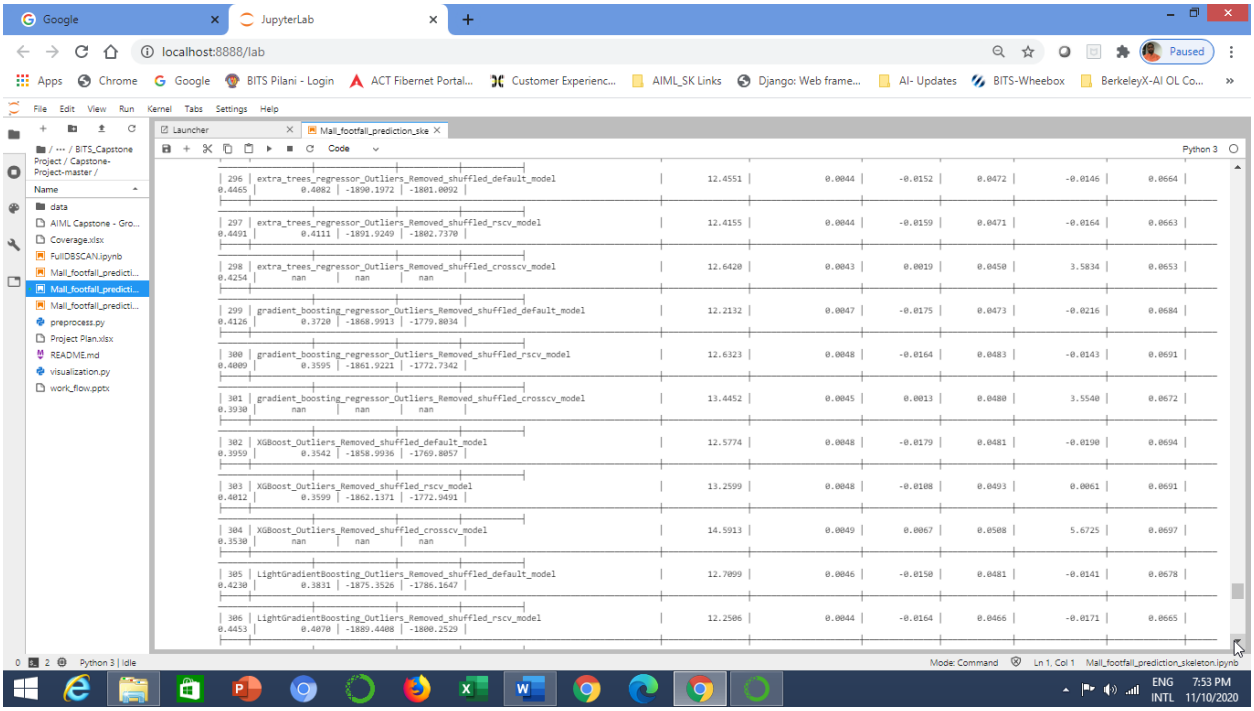
263	elastic_net_Outliers_Removed_shuffled_default_model	17.8150	0.0084	-0.0200	0.0675	-0.0006	0.0915
-0.0503	-0.1229	-1661.5144	-1572.3265				
264	elastic_net_Outliers_Removed_shuffled_rscv_model	14.3319	0.0056	-0.0181	0.0539	-0.0143	0.0752
0.2911	0.2422	-1801.8801	-1712.6922				
265	elastic_net_Outliers_Removed_shuffled_crosscv_model	15.5753	0.0056	0.0006	0.0553	3.8477	0.0746
0.2651	nan	nan	nan				
266	huberRegressor_Outliers_Removed_shuffled_default_model	13.9742	0.0057	-0.0181	0.0526	-0.0165	0.0758
0.2786	0.2287	-1795.6125	-1706.4246				
267	huberRegressor_Outliers_Removed_shuffled_rscv_model	14.0236	0.0058	-0.0200	0.0531	-0.0219	0.0764
0.2672	0.2165	-1790.0158	-1700.8278				
268	huberRegressor_Outliers_Removed_shuffled_crosscv_model	15.3219	0.0059	-0.0053	0.0553	2.0764	0.0765
0.2235	nan	nan	nan				
269	passive_aggressor_Outliers_Removed_shuffled_default_model	16.2110	0.0071	-0.0305	0.0624	-0.0411	0.0841
0.1125	0.0512	-1721.6374	-1632.4495				
270	passive_aggressor_Outliers_Removed_shuffled_rscv_model	15.9741	0.0062	-0.0097	0.0584	0.0193	0.0788
0.2200	0.1662	-1767.7611	-1678.5732				
271	passive_aggressor_Outliers_Removed_shuffled_crosscv_model	17.7737	0.0068	0.0053	0.0625	6.3402	0.0816
0.1313	nan	nan	nan				
272	sgd_Outliers_Removed_shuffled_default_model	16.9288	0.0075	-0.0150	0.0633	0.0105	0.0869
0.0535	-0.0119	-1698.6719	-1609.4839				
273	sgd_Outliers_Removed_shuffled_rscv_model	16.7915	0.0074	-0.0137	0.0626	0.0134	0.0862
0.0672	0.0027	-1703.8692	-1614.6813				



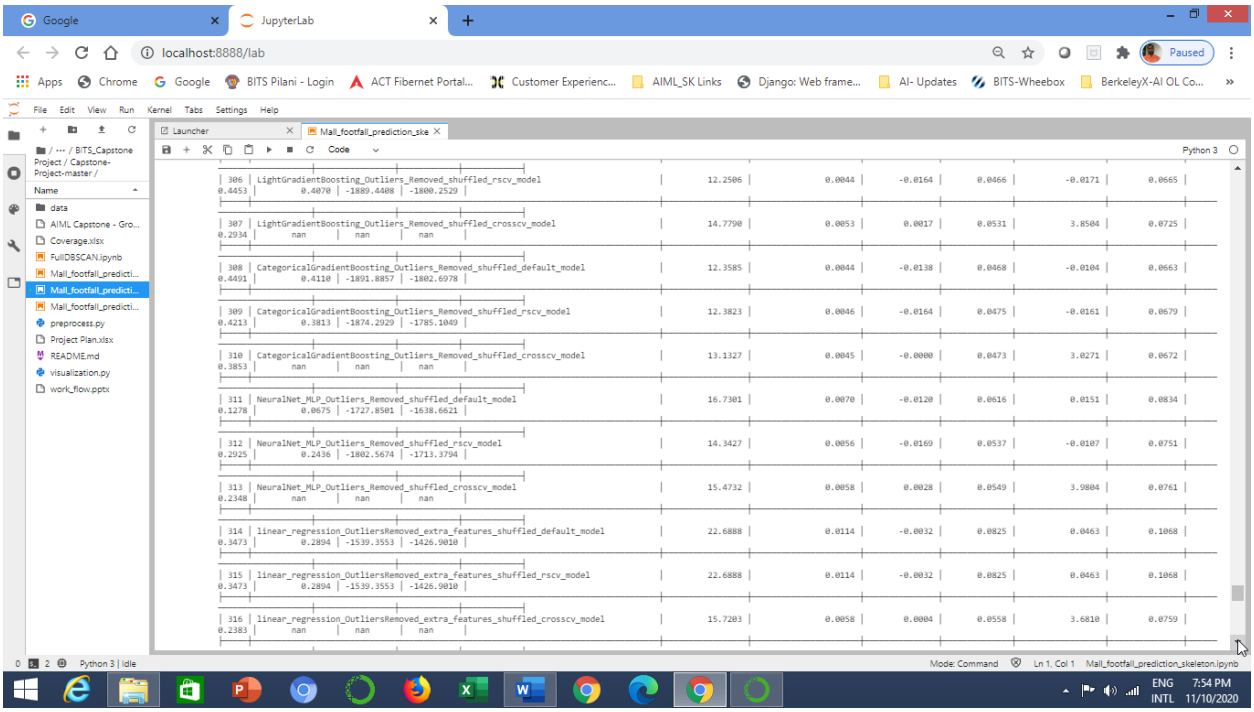
274	sgd_Outliers_Removed_shuffled_crosscv_model	17.7653	0.0074	0.0010	0.0636	5.4223	0.0852
0.0587	nan	nan	nan				
275	knn_regressor_Outliers_Removed_shuffled_default_model	21.1787	0.0106	-0.0120	0.0784	0.0217	0.1027
0.1558	0.0975	-1578.7633	-1489.5754				
276	knn_regressor_Outliers_Removed_shuffled_rscv_model	21.9019	0.0112	-0.0103	0.0809	0.0266	0.1057
0.1487	0.0899	-1558.2387	-1469.0508				
277	knn_regressor_Outliers_Removed_shuffled_crosscv_model	14.5709	0.0056	-0.0034	0.0531	2.8747	0.0743
0.2706	nan	nan	nan				
278	decisiontree_regressor_Outliers_Removed_shuffled_default_model	18.2993	0.0086	-0.0059	0.0672	0.0081	0.0926
-0.0754	-0.1497	-1653.0932	-1563.9053				
279	decisiontree_regressor_Outliers_Removed_shuffled_rscv_model	15.5919	0.0070	-0.0202	0.0594	-0.0126	0.0839
0.1175	0.0566	-1723.6789	-1634.4910				
280	decisiontree_regressor_Outliers_Removed_shuffled_crosscv_model	17.1301	0.0072	0.0001	0.0621	4.5780	0.0844
0.0614	nan	nan	nan				
281	extra_tree_regressor_Outliers_Removed_shuffled_default_model	17.4371	0.0081	-0.0183	0.0653	-0.0239	0.0902
-0.0218	-0.0923	-1671.3616	-1582.1736				
282	extra_tree_regressor_Outliers_Removed_shuffled_rscv_model	15.8831	0.0071	-0.0207	0.0605	-0.0152	0.0841
0.1122	0.0509	-1721.5465	-1632.3586				
283	extra_tree_regressor_Outliers_Removed_shuffled_crosscv_model	17.5556	0.0070	0.0008	0.0630	4.5613	0.0831
0.0876	nan	nan	nan				
284	svm_regressor_Outliers_Removed_shuffled_default_model	15.8688	0.0064	-0.0104	0.0586	0.0083	0.0798
0.2010	0.1458	-1759.1700	-1669.9821				



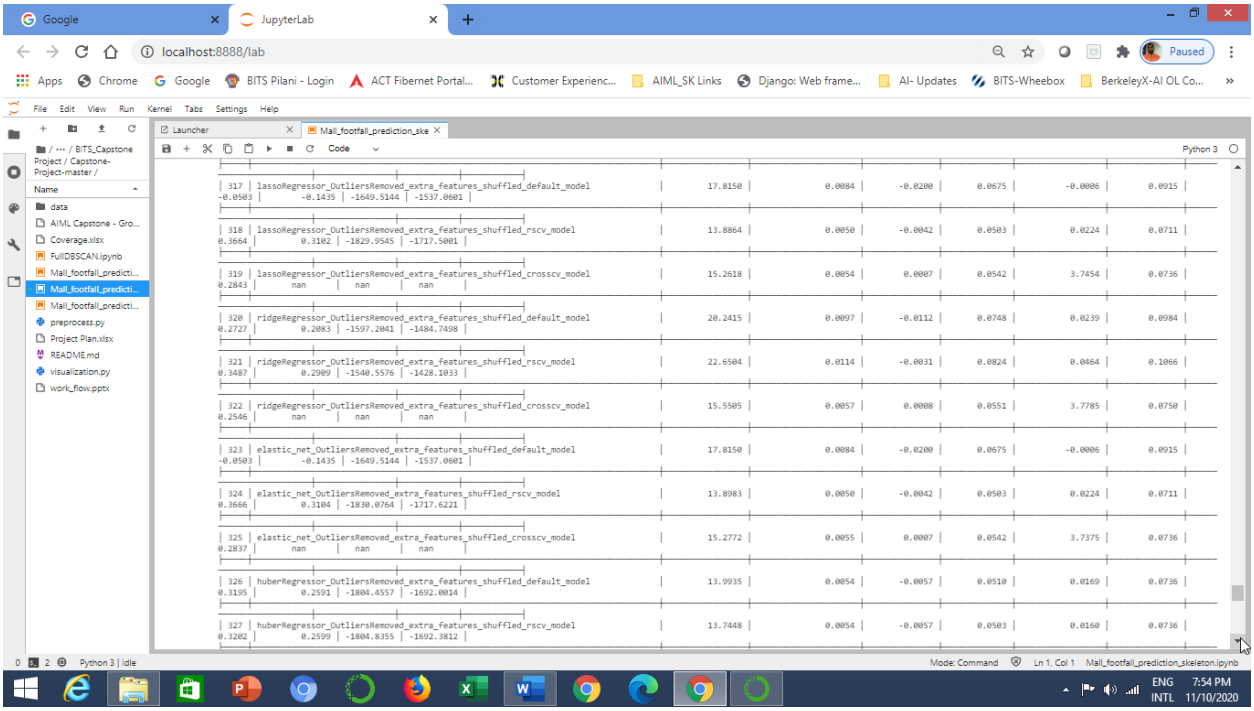
285	svm_regressor_Outliers_Removed_shuffled_rscv_model	15.8688	0.0064	-0.0104	0.0586	0.0083	0.0798
0.2010	0.1458	-1759.1700	-1669.9821				
286	svm_regressor_Outliers_Removed_shuffled_crosscv_model	17.8846	0.0074	0.0103	0.0627	7.3371	0.0855
0.0369	nan	nan	nan				
287	adaBoost_Outliers_Removed_shuffled_default_model	15.2765	0.0054	-0.0020	0.0552	0.0335	0.0732
0.3271	0.2806	-1820.4831	-1731.2951				
288	adaBoost_Outliers_Removed_shuffled_rscv_model	13.2597	0.0048	-0.0109	0.0493	0.0039	0.0691
0.4016	0.3603	-1862.3697	-1773.1818				
289	adaBoost_Outliers_Removed_shuffled_crosscv_model	13.9176	0.0049	0.0003	0.0498	3.8224	0.0695
0.3615	nan	nan	nan				
290	bagging_Outliers_Removed_shuffled_default_model	11.7595	0.0042	-0.0136	0.0447	-0.0106	0.0645
0.4775	0.4415	-1910.8142	-1821.6263				
291	bagging_Outliers_Removed_shuffled_rscv_model	13.0491	0.0049	-0.0162	0.0495	-0.0087	0.0697
0.3899	0.3477	-1855.4469	-1766.2590				
292	bagging_Outliers_Removed_shuffled_crosscv_model	14.2174	0.0049	0.0009	0.0504	4.1989	0.0698
0.3569	nan	nan	nan				
293	random_forest_Outliers_Removed_shuffled_default_model	11.6975	0.0041	-0.0133	0.0443	-0.0095	0.0643
0.4810	0.4452	-1913.1938	-1824.0059				
294	random_forest_Outliers_Removed_shuffled_rscv_model	12.3325	0.0044	-0.0140	0.0464	-0.0086	0.0667
0.4420	0.4035	-1887.3267	-1798.1388				
295	random_forest_Outliers_Removed_shuffled_crosscv_model	13.2340	0.0045	0.0017	0.0468	3.9167	0.0671
0.3981	nan	nan	nan				



296	extra_trees_regressor_Outliers_Removed_shuffled_default_model	12.4551	0.0044	-0.0152	0.0472	-0.0146	0.0664
0.4465	0.4082	-1890.1972	-1801.0092				
297	extra_trees_regressor_Outliers_Removed_shuffled_rscv_model	12.4155	0.0044	-0.0159	0.0471	-0.0164	0.0663
0.4491	0.4111	-1891.9249	-1802.7370				
298	extra_trees_regressor_Outliers_Removed_shuffled_crosscv_model	12.6420	0.0043	0.0019	0.0450	3.5834	0.0653
0.4254	nan	nan	nan				
299	gradient_boosting_regressor_Outliers_Removed_shuffled_default_model	12.2132	0.0047	-0.0175	0.0473	-0.0216	0.0684
0.4126	0.3720	-1868.9913	-1779.8034				
300	gradient_boosting_regressor_Outliers_Removed_shuffled_rscv_model	12.6323	0.0048	-0.0164	0.0483	-0.0143	0.0691
0.4009	0.3595	-1861.9221	-1772.7342				
301	gradient_boosting_regressor_Outliers_Removed_shuffled_crosscv_model	13.4452	0.0045	0.0013	0.0480	3.5540	0.0672
0.3930	nan	nan	nan				
302	XGBoost_Outliers_Removed_shuffled_default_model	12.5774	0.0048	-0.0179	0.0481	-0.0190	0.0694
0.3959	0.3542	-1858.9936	-1769.8057				
303	XGBoost_Outliers_Removed_shuffled_rscv_model	13.2599	0.0048	-0.0108	0.0493	0.0061	0.0691
0.4012	0.3599	-1862.1371	-1772.9491				
304	XGBoost_Outliers_Removed_shuffled_crosscv_model	14.5913	0.0049	0.0067	0.0508	5.6725	0.0697
0.3530	nan	nan	nan				
305	LightGradientBoosting_Outliers_Removed_shuffled_default_model	12.7099	0.0046	-0.0150	0.0481	-0.0141	0.0678
0.4230	0.3831	-1875.3526	-1786.1647				
306	LightGradientBoosting_Outliers_Removed_shuffled_rscv_model	12.2506	0.0044	-0.0164	0.0466	-0.0171	0.0665
0.4453	0.4070	-1889.4408	-1800.2529				



306	LightGradientBoosting_Outliers_Removed_shuffled_rscv_model	12.2506	0.0044	-0.0164	0.0466	-0.0171	0.0665
0.4453	0.4070	-1889.4408	-1800.2529				
307	LightGradientBoosting_Outliers_Removed_shuffled_crosscv_model	14.7790	0.0053	0.0017	0.0531	3.8504	0.0725
0.2934	nan	nan	nan				
308	CategoricalGradientBoosting_Outliers_Removed_shuffled_default_model	12.3585	0.0044	-0.0138	0.0468	-0.0104	0.0663
0.4491	0.4110	-1891.8857	-1802.6978				
309	CategoricalGradientBoosting_Outliers_Removed_shuffled_rscv_model	12.3823	0.0046	-0.0164	0.0475	-0.0161	0.0679
0.4213	0.3813	-1874.2929	-1785.1049				
310	CategoricalGradientBoosting_Outliers_Removed_shuffled_crosscv_model	13.1327	0.0045	-0.0000	0.0473	3.0271	0.0672
0.3853	nan	nan	nan				
311	NeuralNet_MLP_Outliers_Removed_shuffled_default_model	16.7301	0.0070	-0.0120	0.0616	0.0151	0.0834
0.1278	0.0675	-1727.8501	-1638.6621				
312	NeuralNet_MLP_Outliers_Removed_shuffled_rscv_model	14.3427	0.0056	-0.0169	0.0537	-0.0107	0.0751
0.2925	0.2436	-1802.5674	-1713.3794				
313	NeuralNet_MLP_Outliers_Removed_shuffled_crosscv_model	15.4732	0.0058	0.0028	0.0549	3.9804	0.0761
0.2348	nan	nan	nan				
314	linear_regression_OutliersRemoved_extra_features_shuffled_default_model	22.6888	0.0114	-0.0032	0.0825	0.0463	0.1068
0.3473	0.2894	-1539.3553	-1426.9010				
315	linear_regression_OutliersRemoved_extra_features_shuffled_rscv_model	22.6888	0.0114	-0.0032	0.0825	0.0463	0.1068
0.3473	0.2894	-1539.3553	-1426.9010				
316	linear_regression_OutliersRemoved_extra_features_shuffled_crosscv_model	15.7203	0.0058	0.0004	0.0558	3.6810	0.0759
0.2383	nan	nan	nan				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README.md
visualization.py
work_flow.pptx
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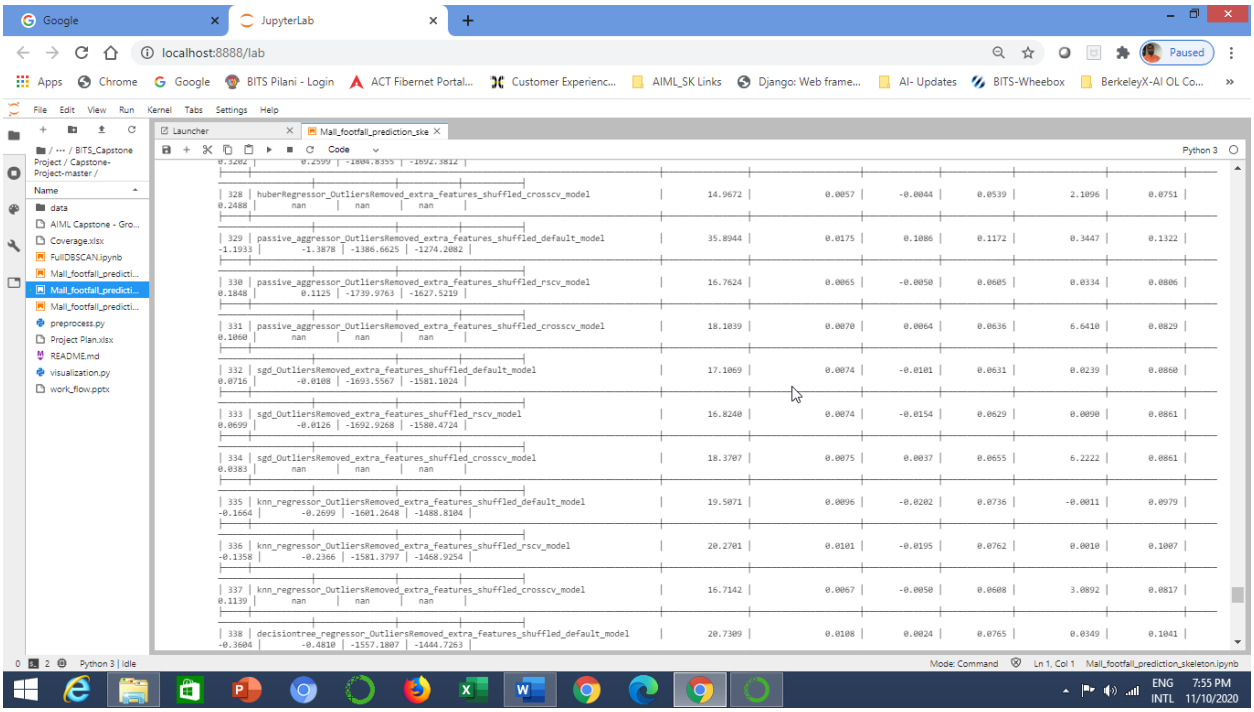
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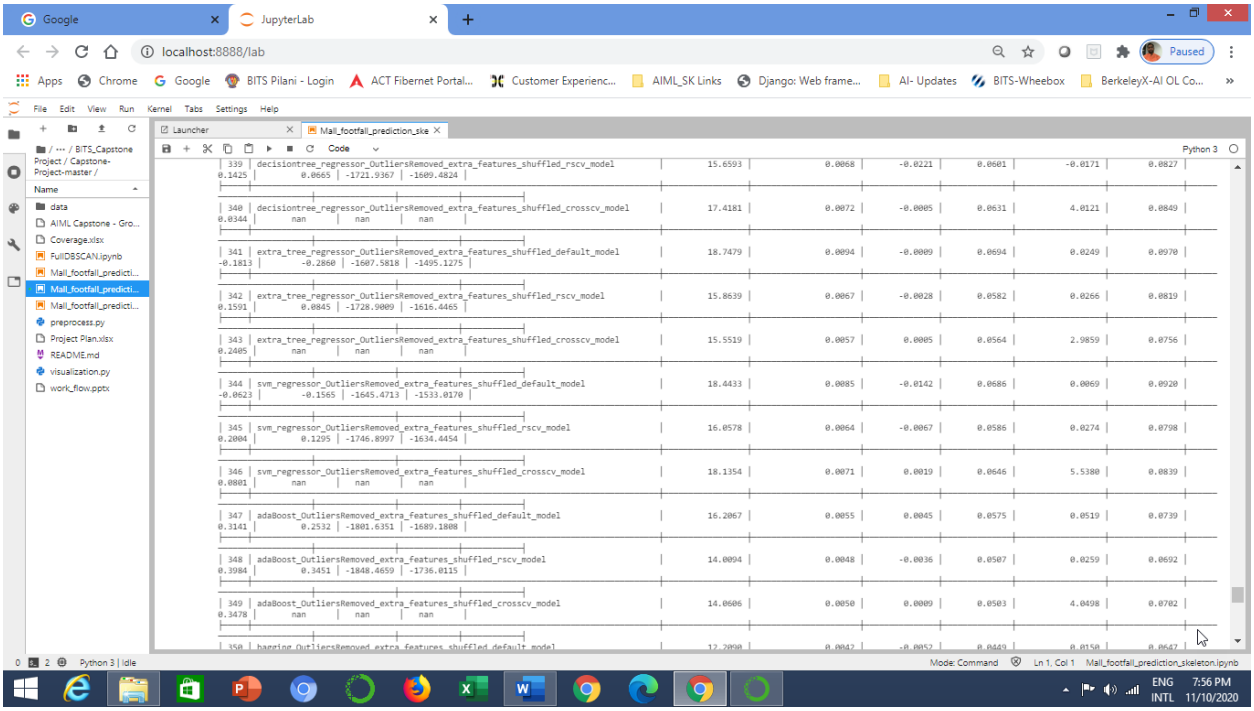
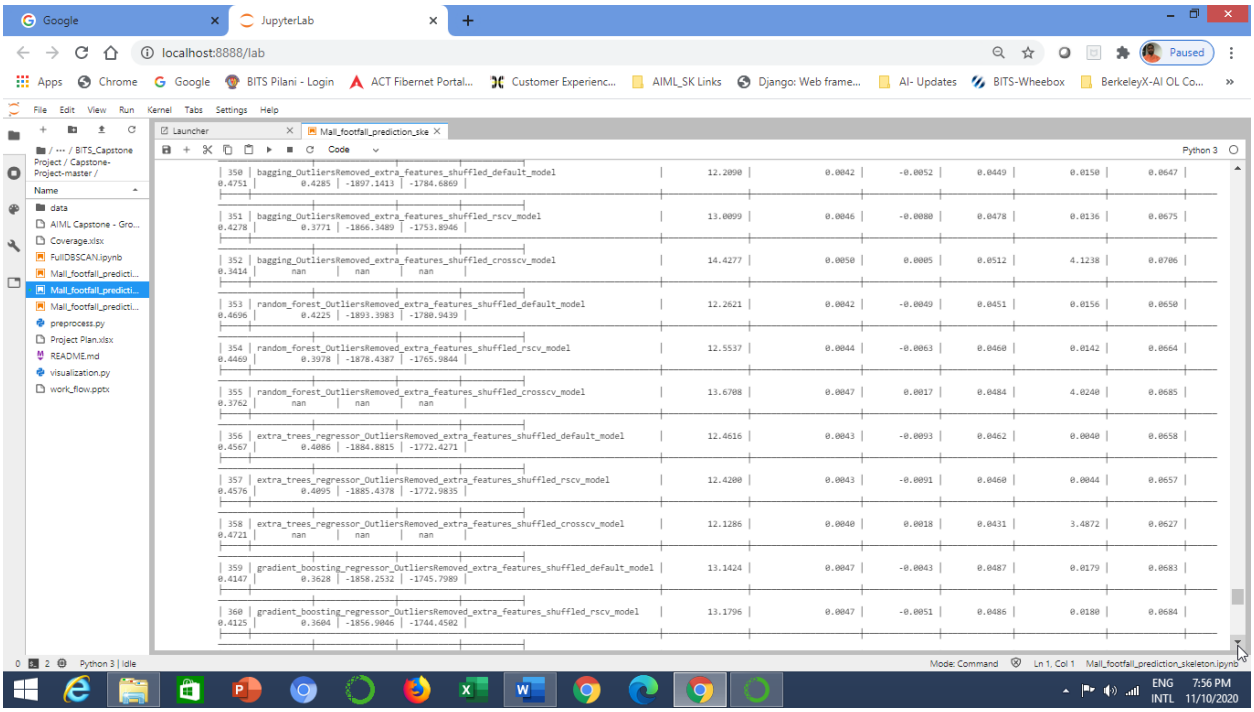
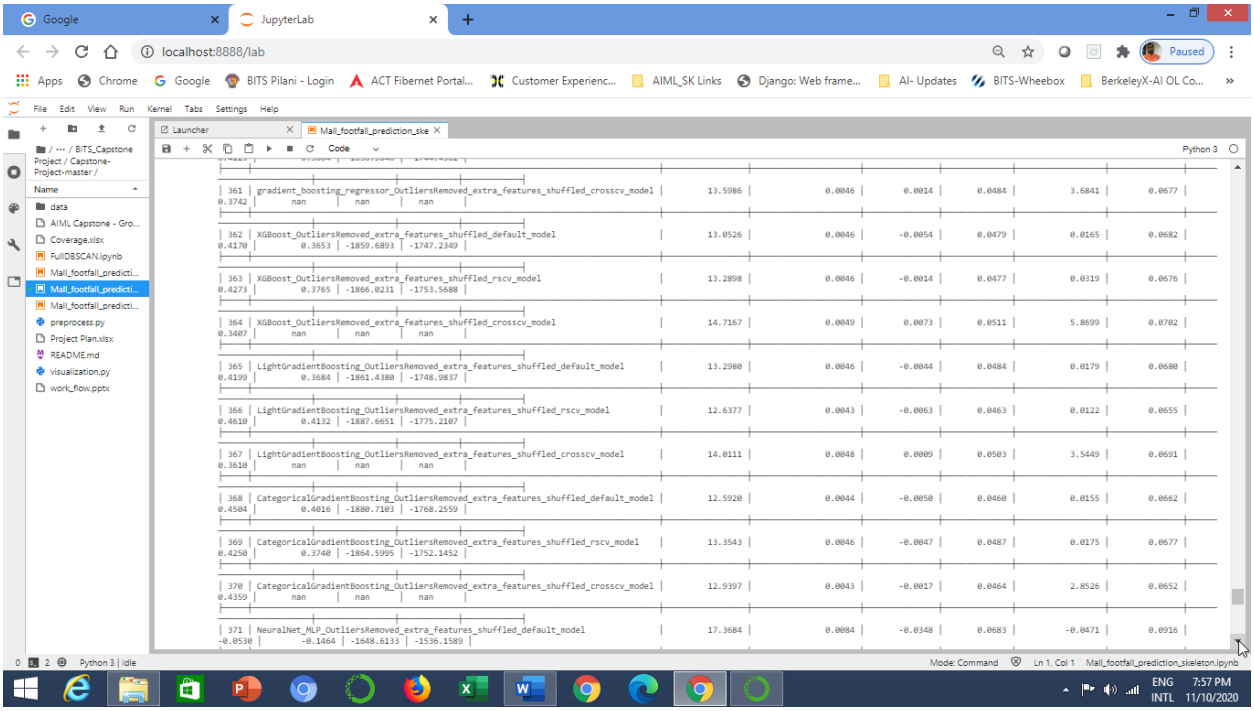


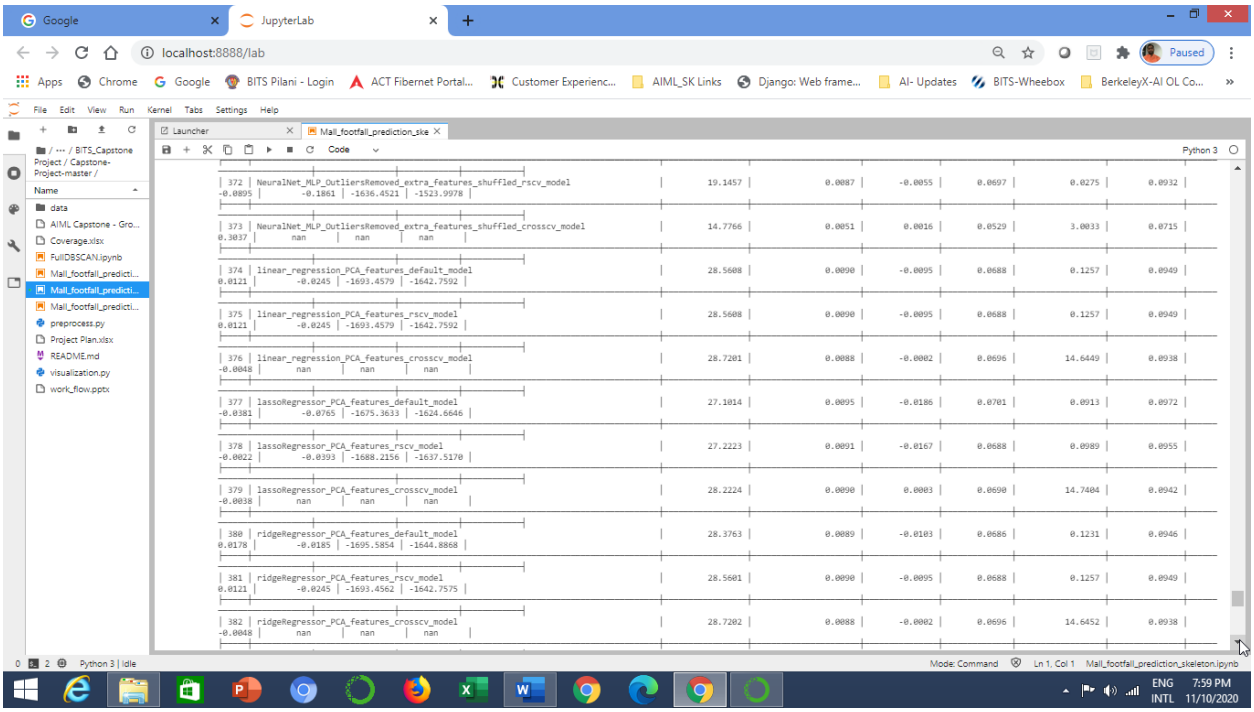
339	decisiontree_regressor_OutliersRemoved_extra_features_shuffled_rscv_model	15.6593	0.0068	-0.0221	0.0601	-0.0171	0.0827
0.1425	0.0665	-1721.9367	-1609.4824				
340	decisiontree_regressor_OutliersRemoved_extra_features_shuffled_crosscv_model	17.4181	0.0072	-0.0005	0.0631	4.0121	0.0849
0.0344	nan	nan	nan				
341	extra_tree_regressor_OutliersRemoved_extra_features_shuffled_default_model	18.7479	0.0094	-0.0009	0.0694	0.0249	0.0970
-0.1813	-0.2860	-1607.5818	-1495.1275				
342	extra_tree_regressor_OutliersRemoved_extra_features_shuffled_rscv_model	15.8639	0.0067	-0.0028	0.0582	0.0266	0.0819
0.1591	0.0845	-1728.9009	-1616.4465				
343	extra_tree_regressor_OutliersRemoved_extra_features_shuffled_crosscv_model	15.5519	0.0057	0.0005	0.0564	2.9859	0.0756
0.2405	nan	nan	nan				
344	svm_regressor_OutliersRemoved_extra_features_shuffled_default_model	18.4433	0.0085	-0.0142	0.0686	0.0069	0.0920
-0.0623	-0.1565	-1645.4713	-1533.0170				
345	svm_regressor_OutliersRemoved_extra_features_shuffled_rscv_model	16.0578	0.0064	-0.0067	0.0586	0.0274	0.0798
0.2004	0.1295	-1746.8997	-1634.4454				
346	svm_regressor_OutliersRemoved_extra_features_shuffled_crosscv_model	18.1354	0.0071	0.0019	0.0646	5.5380	0.0839
0.0801	nan	nan	nan				
347	adaBoost_OutliersRemoved_extra_features_shuffled_default_model	16.2067	0.0055	0.0045	0.0575	0.0519	0.0739
0.3141	0.2532	-1801.6351	-1689.1808				
348	adaBoost_OutliersRemoved_extra_features_shuffled_rscv_model	14.0094	0.0048	-0.0036	0.0507	0.0259	0.0692
0.3984	0.3451	-1848.4659	-1736.0115				
349	adaBoost_OutliersRemoved_extra_features_shuffled_crosscv_model	14.0606	0.0050	0.0009	0.0503	4.0498	0.0702
0.3478	nan	nan	nan				
350	bagging_OutliersRemoved_extra_features_shuffled_default_model	12.2090	0.0042	-0.0052	0.0449	0.0150	0.0647



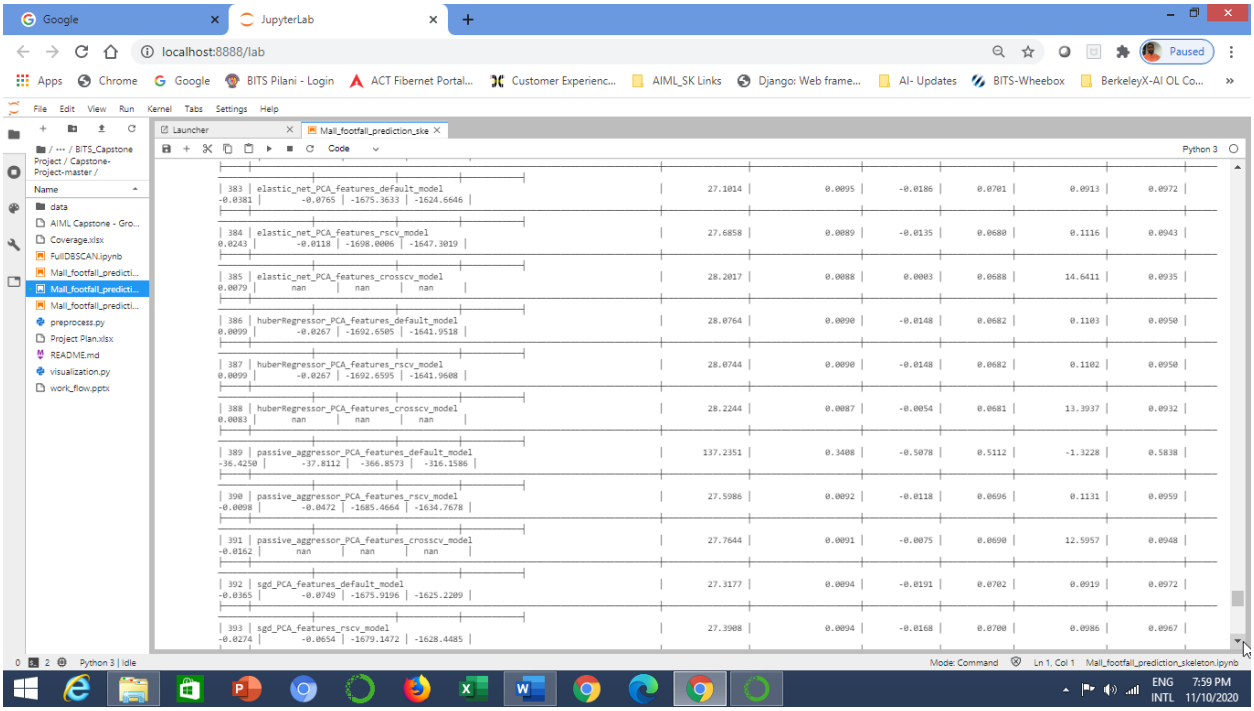
350	bagging_OutliersRemoved_extra_features_shuffled_default_model	12.2090	0.0042	-0.0052	0.0449	0.0150	0.0647
0.4751	0.4285	-1897.1413	-1784.6869				
351	bagging_OutliersRemoved_extra_features_shuffled_rscv_model	13.0099	0.0046	-0.0080	0.0478	0.0136	0.0675
0.4278	0.3771	-1866.3489	-1753.8946				
352	bagging_OutliersRemoved_extra_features_shuffled_crosscv_model	14.4277	0.0050	0.0005	0.0512	4.1238	0.0706
0.3414	nan	nan	nan				
353	random_forest_OutliersRemoved_extra_features_shuffled_default_model	12.2621	0.0042	-0.0049	0.0451	0.0156	0.0650
0.4696	0.4225	-1893.3983	-1780.9439				
354	random_forest_OutliersRemoved_extra_features_shuffled_rscv_model	12.5537	0.0044	-0.0063	0.0460	0.0142	0.0664
0.4469	0.3978	-1878.4387	-1765.9844				
355	random_forest_OutliersRemoved_extra_features_shuffled_crosscv_model	13.6708	0.0047	0.0017	0.0484	4.0240	0.0685
0.3762	nan	nan	nan				
356	extra_trees_regressor_OutliersRemoved_extra_features_shuffled_default_model	12.4616	0.0043	-0.0093	0.0462	0.0040	0.0658
0.4567	0.4086	-1884.8815	-1772.4271				
357	extra_trees_regressor_OutliersRemoved_extra_features_shuffled_rscv_model	12.4200	0.0043	-0.0091	0.0460	0.0044	0.0657
0.4576	0.4095	-1885.4378	-1772.9835				
358	extra_trees_regressor_OutliersRemoved_extra_features_shuffled_crosscv_model	12.1286	0.0040	0.0018	0.0431	3.4872	0.0627
0.4721	nan	nan	nan				
359	gradient_boosting_regressor_OutliersRemoved_extra_features_shuffled_default_model	13.1424	0.0047	-0.0043	0.0487	0.0179	0.0683
0.4147	0.3628	-1858.2532	-1745.7989				
360	gradient_boosting_regressor_OutliersRemoved_extra_features_shuffled_rscv_model	13.1796	0.0047	-0.0051	0.0486	0.0180	0.0684
0.4125	0.3604	-1856.9046	-1744.4502				



361	gradient_boosting_regressor_OutliersRemoved_extra_features_shuffled_crosscv_model	13.5986	0.0046	0.0014	0.0484	3.6841	0.0677
0.3742	nan	nan	nan				
362	XGBoost_OutliersRemoved_extra_features_shuffled_default_model	13.0526	0.0046	-0.0054	0.0479	0.0165	0.0682
0.4170	0.3653	-1859.6893	-1747.2349				
363	XGBoost_OutliersRemoved_extra_features_shuffled_rscv_model	13.2898	0.0046	-0.0014	0.0477	0.0319	0.0676
0.4273	0.3765	-1866.0231	-1753.5688				
364	XGBoost_OutliersRemoved_extra_features_shuffled_crosscv_model	14.7167	0.0049	0.0073	0.0511	5.8699	0.0702
0.3407	nan	nan	nan				
365	LightGradientBoosting_OutliersRemoved_extra_features_shuffled_default_model	13.2980	0.0046	-0.0044	0.0484	0.0179	0.0680
0.4199	0.3684	-1861.4380	-1748.9837				
366	LightGradientBoosting_OutliersRemoved_extra_features_shuffled_rscv_model	12.6377	0.0043	-0.0063	0.0463	0.0122	0.0655
0.4610	0.4132	-1887.6651	-1775.2107				
367	LightGradientBoosting_OutliersRemoved_extra_features_shuffled_crosscv_model	14.0111	0.0048	0.0009	0.0503	3.5449	0.0691
0.3610	nan	nan	nan				
368	CategoricalGradientBoosting_OutliersRemoved_extra_features_shuffled_default_model	12.5920	0.0044	-0.0050	0.0460	0.0155	0.0662
0.4504	0.4016	-1880.7103	-1768.2559				
369	CategoricalGradientBoosting_OutliersRemoved_extra_features_shuffled_rscv_model	13.3543	0.0046	-0.0047	0.0487	0.0175	0.0677
0.4250	0.3748	-1864.5995	-1752.1452				
370	CategoricalGradientBoosting_OutliersRemoved_extra_features_shuffled_crosscv_model	12.9397	0.0043	-0.0017	0.0464	2.8526	0.0652
0.4359	nan	nan	nan				
371	NeuralNet_MLP_OutliersRemoved_extra_features_shuffled_default_model	17.3684	0.0084	-0.0348	0.0683	-0.0471	0.0916
-0.0530	-0.1464	-1648.6133	-1536.1589				



372	NeuralNet_MLP_OutliersRemoved_extra_features_shuffled_rscv_model	19.1457	0.0087	-0.0055	0.0697	0.0275	0.0932
-0.0895	-0.1861	-1636.4521	-1523.9978				
373	NeuralNet_MLP_OutliersRemoved_extra_features_shuffled_crosscv_model	14.7766	0.0051	0.0016	0.0529	3.0033	0.0715
0.3037	nan	nan	nan				
374	linear_regression_PCA_features_default_model	28.5608	0.0090	-0.0095	0.0688	0.1257	0.0949
0.0121	-0.0245	-1693.4579	-1642.7592				
375	linear_regression_PCA_features_rscv_model	28.5608	0.0090	-0.0095	0.0688	0.1257	0.0949
0.0121	-0.0245	-1693.4579	-1642.7592				
376	linear_regression_PCA_features_crosscv_model	28.7201	0.0088	-0.0002	0.0696	14.6449	0.0938
-0.0048	nan	nan	nan				
377	lassoRegressor_PCA_features_default_model	27.1014	0.0095	-0.0186	0.0701	0.0913	0.0972
-0.0381	-0.0765	-1675.3633	-1624.6646				
378	lassoRegressor_PCA_features_rscv_model	27.2223	0.0091	-0.0167	0.0688	0.0989	0.0955
-0.0022	-0.0393	-1688.2156	-1637.5170				
379	lassoRegressor_PCA_features_crosscv_model	28.2224	0.0090	0.0003	0.0690	14.7404	0.0942
-0.0038	nan	nan	nan				
380	ridgeRegressor_PCA_features_default_model	28.3763	0.0089	-0.0103	0.0686	0.1231	0.0946
0.0178	-0.0185	-1695.5854	-1644.8868				
381	ridgeRegressor_PCA_features_rscv_model	28.5601	0.0090	-0.0095	0.0688	0.1257	0.0949
0.0121	-0.0245	-1693.4562	-1642.7575				
382	ridgeRegressor_PCA_features_crosscv_model	28.7202	0.0088	-0.0002	0.0696	14.6452	0.0938
-0.0048	nan	nan	nan				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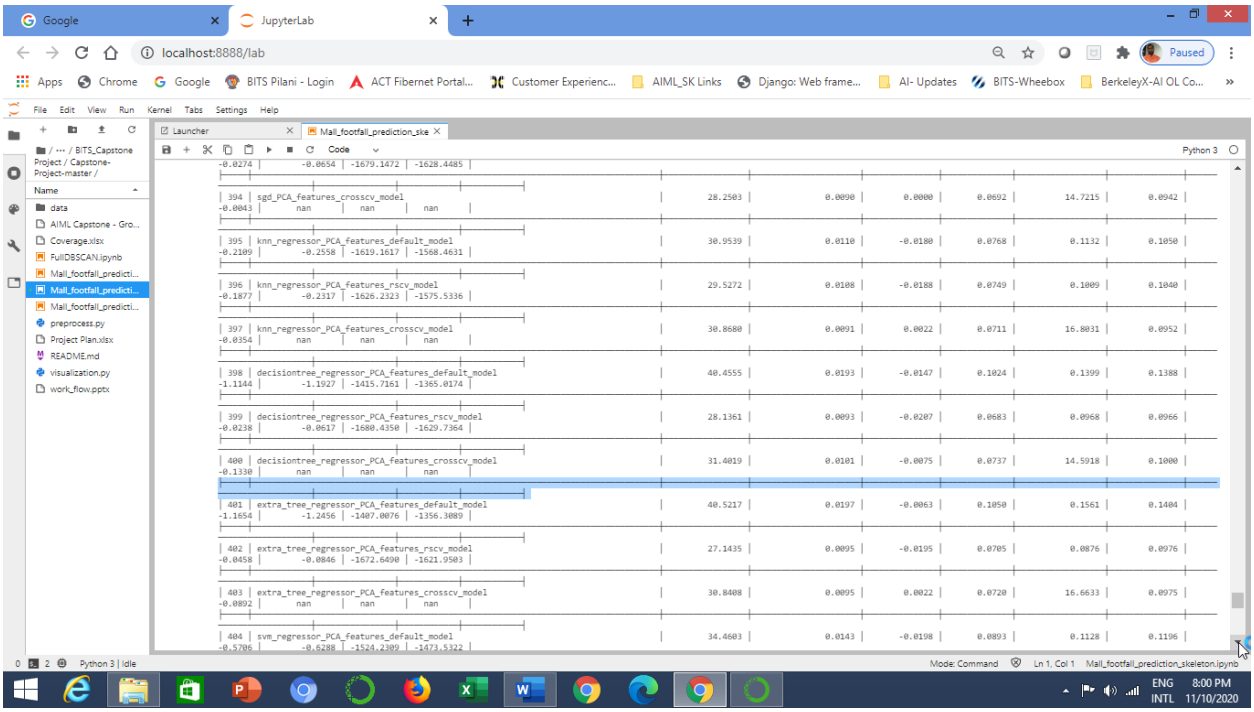
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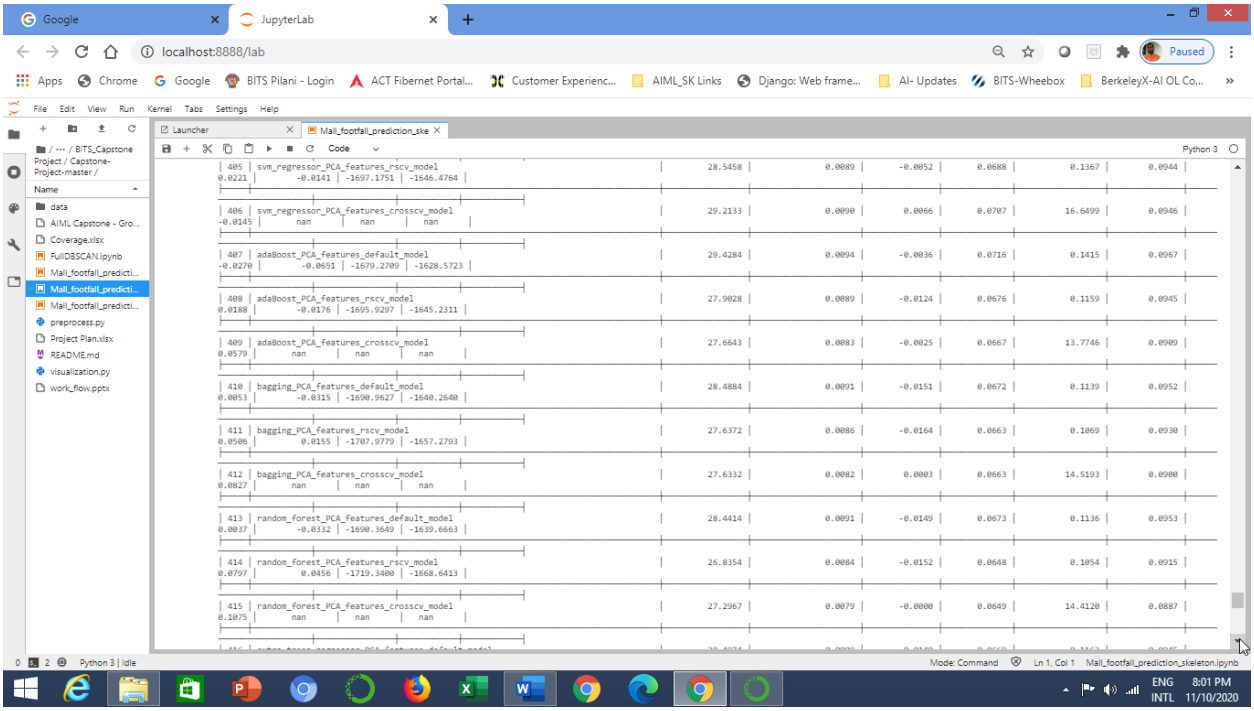
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405 | svm_regressor_PCA_features_rscv_model | 28.5458 | 0.0089 | -0.0052 | 0.0688 | 0.1367 | 0.0944 | 0.0221 | -0.0141 | -1697.1751 | -1646.4764 |
406 | svm_regressor_PCA_features_crosscv_model | 29.2133 | 0.0090 | 0.0066 | 0.0707 | 16.6499 | 0.0946 | -0.0145 | nan | nan | nan |
407 | adaBoost_PCA_features_default_model | 29.4284 | 0.0094 | -0.0036 | 0.0716 | 0.1415 | 0.0967 | -0.0270 | -0.0651 | -1679.2709 | -1628.5723 |
408 | adaBoost_PCA_features_rscv_model | 27.9028 | 0.0089 | -0.0124 | 0.0676 | 0.1159 | 0.0945 | 0.0188 | -0.0176 | -1695.9297 | -1645.2311 |
409 | adaBoost_PCA_features_crosscv_model | 27.6643 | 0.0083 | -0.0025 | 0.0667 | 13.7746 | 0.0909 | 0.0579 | nan | nan | nan |
410 | bagging_PCA_features_default_model | 28.4884 | 0.0091 | -0.0151 | 0.0672 | 0.1139 | 0.0952 | 0.0053 | -0.0315 | -1690.9627 | -1640.2640 |
411 | bagging_PCA_features_rscv_model | 27.6372 | 0.0086 | -0.0164 | 0.0663 | 0.1069 | 0.0930 | 0.0506 | 0.0155 | -1707.9779 | -1657.2793 |
412 | bagging_PCA_features_crosscv_model | 27.6332 | 0.0082 | 0.0003 | 0.0663 | 14.5193 | 0.0900 | 0.0827 | nan | nan | nan |
413 | random_forest_PCA_features_default_model | 28.4414 | 0.0091 | -0.0149 | 0.0673 | 0.1136 | 0.0953 | 0.0037 | -0.0332 | -1690.3649 | -1639.6663 |
414 | random_forest_PCA_features_rscv_model | 26.8354 | 0.0084 | -0.0152 | 0.0648 | 0.1054 | 0.0915 | 0.0797 | 0.0456 | -1719.3400 | -1668.6413 |
415 | random_forest_PCA_features_crosscv_model | 27.2967 | 0.0079 | -0.0000 | 0.0649 | 14.4120 | 0.0887 | 0.1075 | nan | nan | nan |
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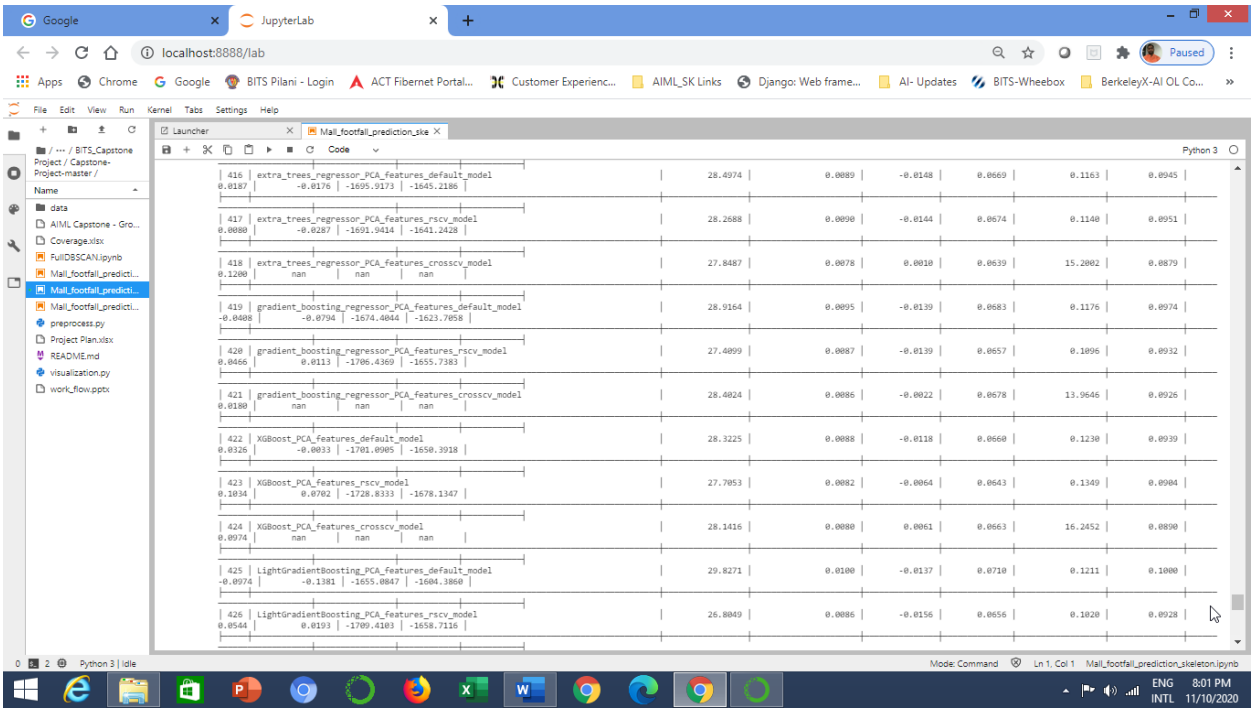
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416 | extra_trees_regressor_PCA_features_default_model | 28.4974 | 0.0089 | -0.0148 | 0.0669 | 0.1163 | 0.0945 | 0.0187 | -0.0176 | -1695.9173 | -1645.2186 |
417 | extra_trees_regressor_PCA_features_rscv_model | 28.2688 | 0.0090 | -0.0144 | 0.0674 | 0.1140 | 0.0951 | 0.0080 | -0.0287 | -1691.9414 | -1641.2428 |
418 | extra_trees_regressor_PCA_features_crosscv_model | 27.8487 | 0.0078 | 0.0010 | 0.0639 | 15.2002 | 0.0879 | 0.1200 | nan | nan | nan |
419 | gradient_boosting_regressor_PCA_features_default_model | 28.9164 | 0.0095 | -0.0139 | 0.0683 | 0.1176 | 0.0974 | -0.0408 | -0.0794 | -1674.4044 | -1623.7058 |
420 | gradient_boosting_regressor_PCA_features_rscv_model | 27.4099 | 0.0087 | -0.0139 | 0.0657 | 0.1096 | 0.0932 | 0.0466 | 0.0113 | -1706.4369 | -1655.7383 |
421 | gradient_boosting_regressor_PCA_features_crosscv_model | 28.4024 | 0.0086 | -0.0022 | 0.0678 | 13.9646 | 0.0926 | 0.0180 | nan | nan | nan |
422 | XGBoost_PCA_features_default_model | 28.3225 | 0.0088 | -0.0118 | 0.0660 | 0.1230 | 0.0939 | 0.0326 | -0.0033 | -1701.0905 | -1650.3918 |
423 | XGBoost_PCA_features_rscv_model | 27.7053 | 0.0082 | -0.0064 | 0.0643 | 0.1349 | 0.0904 | 0.1034 | 0.0702 | -1728.8333 | -1678.1347 |
424 | XGBoost_PCA_features_crosscv_model | 28.1416 | 0.0080 | 0.0061 | 0.0663 | 16.2452 | 0.0890 | 0.0974 | nan | nan | nan |
425 | LightGradientBoosting_PCA_features_default_model | 29.8271 | 0.0100 | -0.0137 | 0.0710 | 0.1211 | 0.1000 | -0.0974 | -0.1381 | -1655.0847 | -1604.3860 |
426 | LightGradientBoosting_PCA_features_rscv_model | 26.8049 | 0.0086 | -0.0156 | 0.0656 | 0.1020 | 0.0928 | 0.0544 | 0.0193 | -1709.4103 | -1658.7116 |
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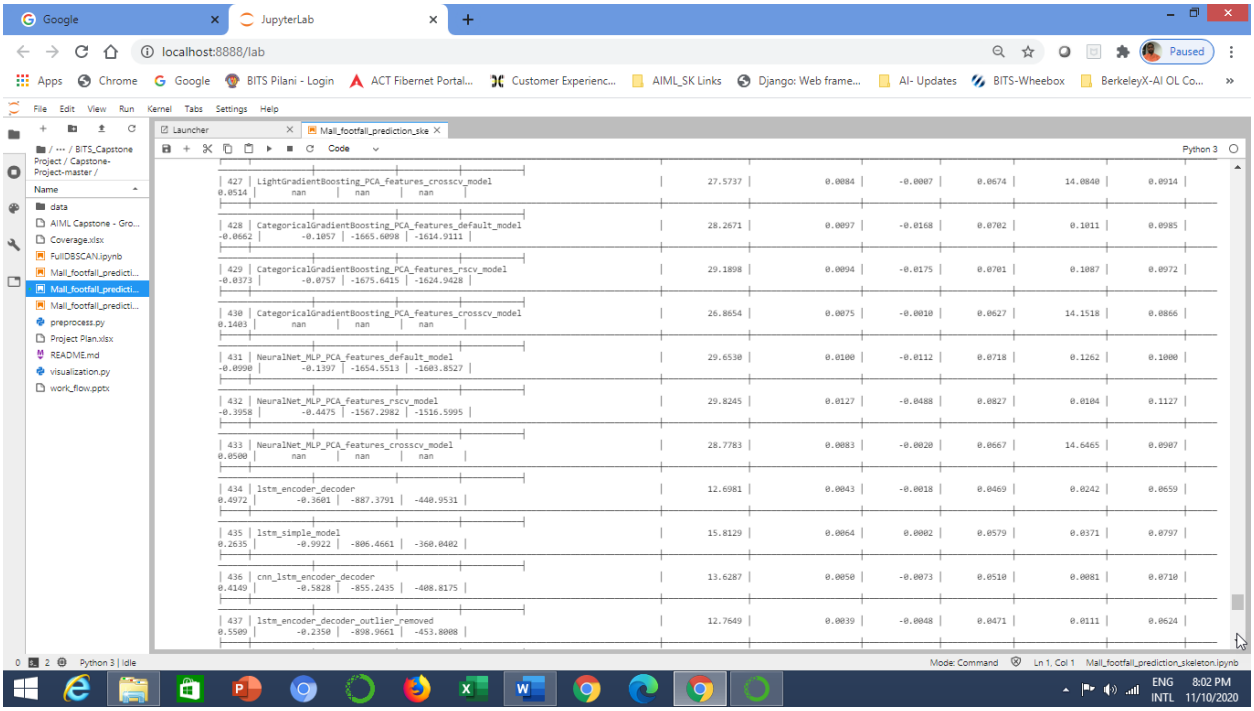
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427 | LightGradientBoosting_PCA_features_crosscv_model | 27.5737 | 0.0084 | -0.0007 | 0.0674 | 14.0840 | 0.0914 | 0.0514 | nan | nan | nan |
428 | CategoricalGradientBoosting_PCA_features_default_model | 28.2671 | 0.0097 | -0.0168 | 0.0702 | 0.1011 | 0.0985 | -0.0662 | -0.1057 | -1665.6098 | -1614.9111 |
429 | CategoricalGradientBoosting_PCA_features_rscv_model | 29.1898 | 0.0094 | -0.0175 | 0.0701 | 0.1087 | 0.0972 | -0.0373 | -0.0757 | -1675.6415 | -1624.9428 |
430 | CategoricalGradientBoosting_PCA_features_crosscv_model | 26.8654 | 0.0075 | -0.0010 | 0.0627 | 14.1518 | 0.0866 | 0.1403 | nan | nan | nan |
431 | NeuralNet_MLP_PCA_features_default_model | 29.6530 | 0.0100 | -0.0112 | 0.0718 | 0.1262 | 0.1000 | -0.0990 | -0.1397 | -1654.5513 | -1603.8527 |
432 | NeuralNet_MLP_PCA_features_rscv_model | 29.8245 | 0.0127 | -0.0488 | 0.0827 | 0.0104 | 0.1127 | -0.3958 | -0.4475 | -1567.2982 | -1516.5995 |
433 | NeuralNet_MLP_PCA_features_crosscv_model | 28.7783 | 0.0083 | -0.0020 | 0.0667 | 14.6465 | 0.0907 | 0.0500 | nan | nan | nan |
434 | lstm_encoder_decoder | 12.6981 | 0.0043 | -0.0018 | 0.0469 | 0.0242 | 0.0659 | 0.4972 | -0.3601 | -887.3791 | -440.9531 |
435 | lstm_simple_model | 15.8129 | 0.0064 | 0.0002 | 0.0579 | 0.0371 | 0.0797 | 0.2635 | -0.9922 | -806.4661 | -360.0402 |
436 | cnn_lstm_encoder_decoder | 13.6287 | 0.0050 | -0.0073 | 0.0510 | 0.0081 | 0.0710 | 0.4149 | -0.5828 | -855.2435 | -408.8175 |
437 | lstm_encoder_decoder_outlier_removed | 12.7649 | 0.0039 | -0.0048 | 0.0471 | 0.0111 | 0.0624 | 0.5509 | -0.2350 | -898.9661 | -453.8008 |
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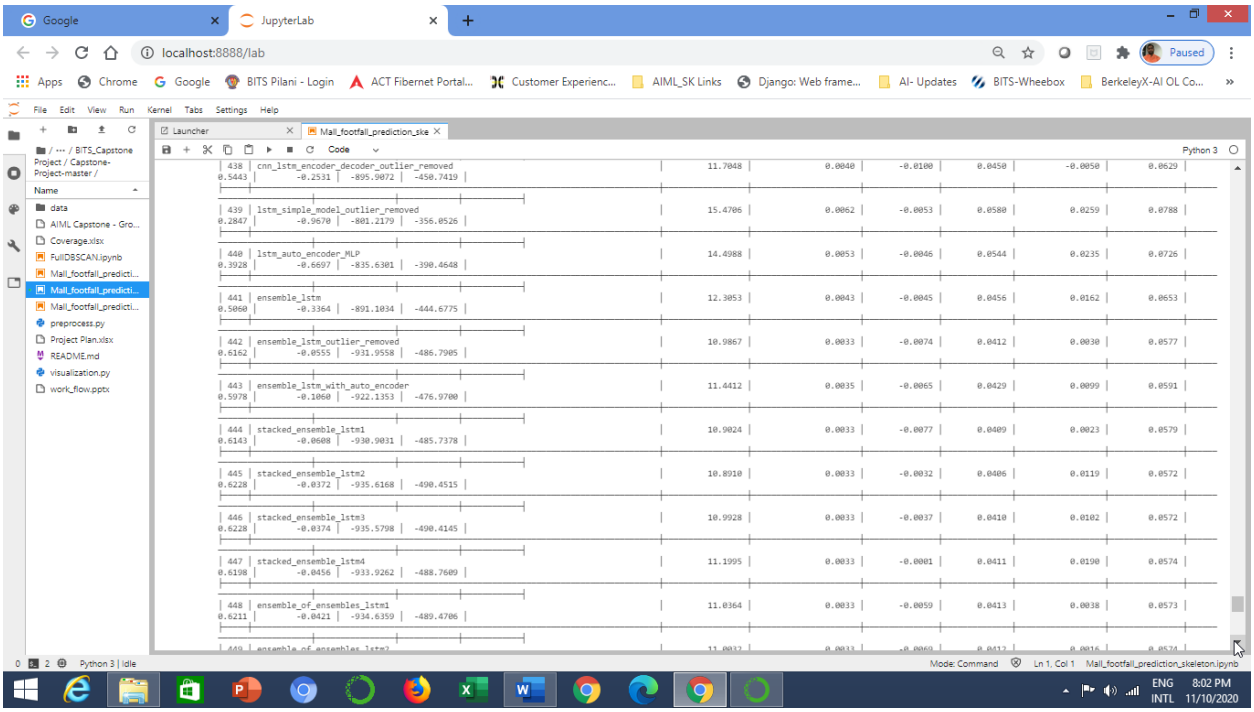
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438 | cnn_lstm_encoder_decoder_outlier_removed | 11.7048 | 0.0040 | -0.0100 | 0.0450 | -0.0050 | 0.0629 | 0.5443 | -0.2531 | -895.9072 | -450.7419 |
439 | lstm_simple_model_outlier_removed | 15.4706 | 0.0062 | -0.0053 | 0.0580 | 0.0259 | 0.0788 | 0.2847 | -0.9670 | -801.2179 | -356.0526 |
440 | lstm_auto_encoder_MLP | 14.4988 | 0.0053 | -0.0046 | 0.0544 | 0.0235 | 0.0726 | 0.3928 | -0.6697 | -835.6301 | -390.4648 |
441 | ensemble_lstm | 12.3053 | 0.0043 | -0.0045 | 0.0456 | 0.0162 | 0.0653 | 0.5060 | -0.3364 | -891.1034 | -444.6775 |
442 | ensemble_lstm_outlier_removed | 10.9867 | 0.0033 | -0.0074 | 0.0412 | 0.0030 | 0.0577 | 0.6162 | -0.0555 | -931.9558 | -486.7905 |
443 | ensemble_lstm_with_auto_encoder | 11.4412 | 0.0035 | -0.0065 | 0.0429 | 0.0099 | 0.0591 | 0.5978 | -0.1060 | -922.1353 | -476.9700 |
444 | stacked_ensemble_lstm1 | 10.9024 | 0.0033 | -0.0077 | 0.0409 | 0.0023 | 0.0579 | 0.6143 | -0.0608 | -930.9031 | -485.7378 |
445 | stacked_ensemble_lstm2 | 10.8910 | 0.0033 | -0.0032 | 0.0406 | 0.0119 | 0.0572 | 0.6228 | -0.0372 | -935.6168 | -490.4515 |
446 | stacked_ensemble_lstm3 | 10.9928 | 0.0033 | -0.0037 | 0.0410 | 0.0102 | 0.0572 | 0.6228 | -0.0374 | -935.5798 | -490.4145 |
447 | stacked_ensemble_lstm4 | 11.1995 | 0.0033 | -0.0001 | 0.0411 | 0.0190 | 0.0574 | 0.6198 | -0.0456 | -933.9262 | -488.7609 |
448 | ensemble_of_ensembles_lstm1 | 11.0364 | 0.0033 | -0.0059 | 0.0413 | 0.0038 | 0.0573 | 0.6211 | -0.0421 | -934.6359 | -489.4706 |
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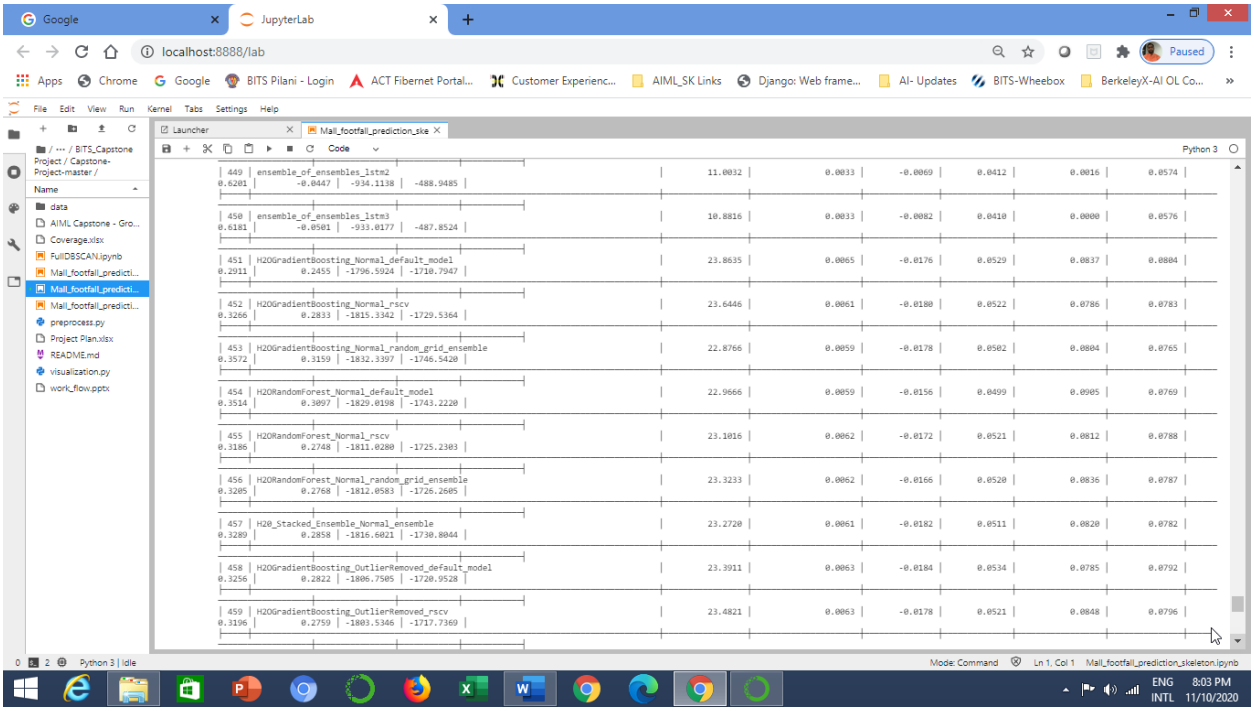
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| 449 | ensemble_of_ensembles_lstm2 | 11.0032 | 0.0033 | -0.0069 | 0.0412 | 0.0016 | 0.0574 |
0.6201 | -0.0447 | -934.1138 | -488.9485 |
| 450 | ensemble_of_ensembles_lstm3 | 10.8816 | 0.0033 | -0.0082 | 0.0410 | 0.0000 | 0.0576 |
0.6181 | -0.0501 | -933.0177 | -487.8524 |
| 451 | H2OGradientBoosting_Normal_default_model | 23.8635 | 0.0065 | -0.0176 | 0.0529 | 0.0837 | 0.0804 |
0.2911 | 0.2455 | -1796.5924 | -1710.7947 |
| 452 | H2OGradientBoosting_Normal_rscv | 23.6446 | 0.0061 | -0.0180 | 0.0522 | 0.0786 | 0.0783 |
0.3266 | 0.2833 | -1815.3342 | -1729.5364 |
| 453 | H2OGradientBoosting_Normal_random_grid_ensemble | 22.8766 | 0.0059 | -0.0178 | 0.0502 | 0.0804 | 0.0765 |
0.3572 | 0.3159 | -1832.3397 | -1746.5420 |
| 454 | H2ORandomForest_Normal_default_model | 22.9666 | 0.0059 | -0.0156 | 0.0499 | 0.0905 | 0.0769 |
0.3514 | 0.3097 | -1829.0198 | -1743.2220 |
| 455 | H2ORandomForest_Normal_rscv | 23.1016 | 0.0062 | -0.0172 | 0.0521 | 0.0812 | 0.0788 |
0.3186 | 0.2748 | -1811.0280 | -1725.2303 |
| 456 | H2ORandomForest_Normal_random_grid_ensemble | 23.3233 | 0.0062 | -0.0166 | 0.0520 | 0.0836 | 0.0787 |
0.3205 | 0.2768 | -1812.0583 | -1726.2605 |
| 457 | H2O_Stacked_Ensemble_Normal_ensemble | 23.2720 | 0.0061 | -0.0182 | 0.0511 | 0.0820 | 0.0782 |
0.3289 | 0.2858 | -1816.6021 | -1730.8044 |
| 458 | H2OGradientBoosting_OutlierRemoved_default_model | 23.3911 | 0.0063 | -0.0184 | 0.0534 | 0.0785 | 0.0792 |
0.3256 | 0.2822 | -1806.7505 | -1720.9528 |
| 459 | H2OGradientBoosting_OutlierRemoved_rscv | 23.4821 | 0.0063 | -0.0178 | 0.0521 | 0.0848 | 0.0796 |
0.3196 | 0.2759 | -1803.5346 | -1717.7369 |
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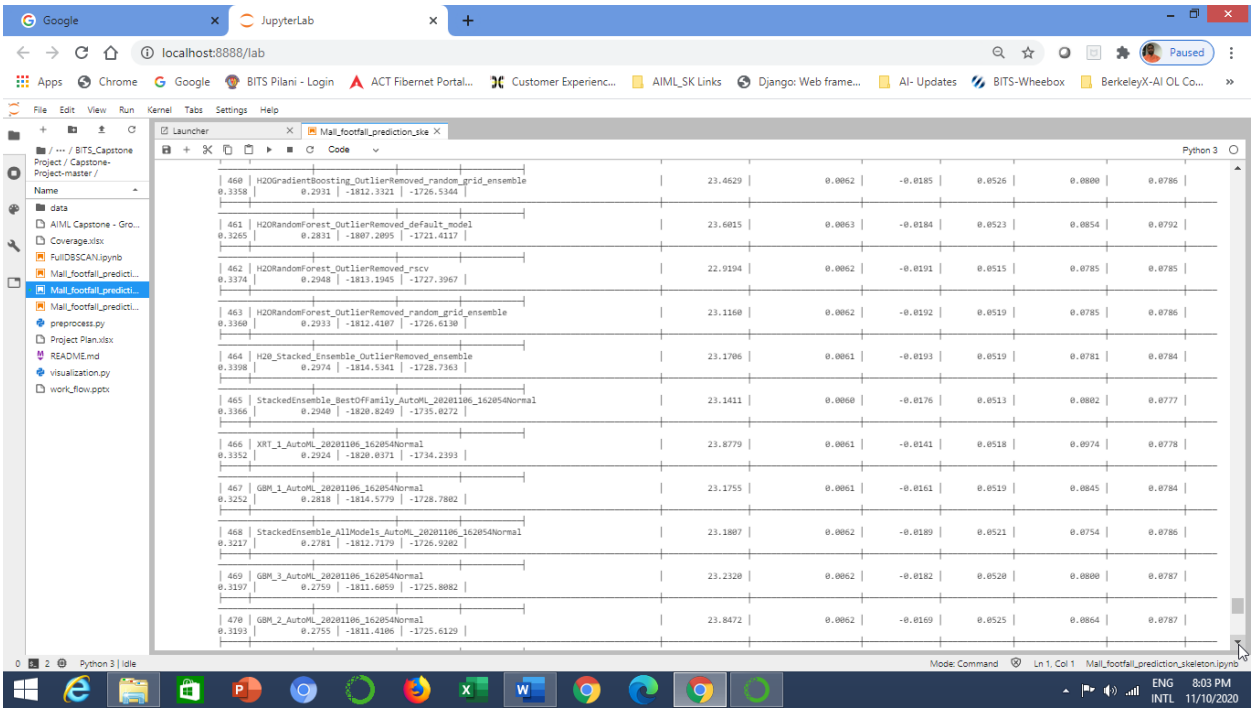
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| 460 | H2OGradientBoosting_OutlierRemoved_random_grid_ensemble | 23.4629 | 0.0062 | -0.0185 | 0.0526 | 0.0800 | 0.0786 |
0.3358 | 0.2931 | -1812.3321 | -1726.5344 |
| 461 | H2ORandomForest_OutlierRemoved_default_model | 23.6015 | 0.0063 | -0.0184 | 0.0523 | 0.0854 | 0.0792 |
0.3265 | 0.2831 | -1807.2095 | -1721.4117 |
| 462 | H2ORandomForest_OutlierRemoved_rscv | 22.9194 | 0.0062 | -0.0191 | 0.0515 | 0.0785 | 0.0785 |
0.3374 | 0.2948 | -1813.1945 | -1727.3967 |
| 463 | H2ORandomForest_OutlierRemoved_random_grid_ensemble | 23.1160 | 0.0062 | -0.0192 | 0.0519 | 0.0785 | 0.0786 |
0.3360 | 0.2933 | -1812.4107 | -1726.6130 |
| 464 | H2O_Stacked_Ensemble_OutlierRemoved_ensemble | 23.1706 | 0.0061 | -0.0193 | 0.0519 | 0.0781 | 0.0784 |
0.3398 | 0.2974 | -1814.5341 | -1728.7363 |
| 465 | StackedEnsemble_BestOfFamily_AutoML_20201106_162054Normal | 23.1411 | 0.0060 | -0.0176 | 0.0513 | 0.0802 | 0.0777 |
0.3366 | 0.2940 | -1820.8249 | -1735.0272 |
| 466 | XRT_1_AutoML_20201106_162054Normal | 23.8779 | 0.0061 | -0.0141 | 0.0518 | 0.0974 | 0.0778 |
0.3352 | 0.2924 | -1820.0371 | -1734.2393 |
| 467 | GBM_1_AutoML_20201106_162054Normal | 23.1755 | 0.0061 | -0.0161 | 0.0519 | 0.0845 | 0.0784 |
0.3252 | 0.2818 | -1814.5779 | -1728.7802 |
| 468 | StackedEnsemble_AllModels_AutoML_20201106_162054Normal | 23.1807 | 0.0062 | -0.0189 | 0.0521 | 0.0754 | 0.0786 |
0.3217 | 0.2781 | -1812.7179 | -1726.9202 |
| 469 | GBM_3_AutoML_20201106_162054Normal | 23.2320 | 0.0062 | -0.0182 | 0.0520 | 0.0800 | 0.0787 |
0.3197 | 0.2759 | -1811.6059 | -1725.8082 |
| 470 | GBM_2_AutoML_20201106_162054Normal | 23.8472 | 0.0062 | -0.0169 | 0.0525 | 0.0864 | 0.0787 |
0.3193 | 0.2755 | -1811.4106 | -1725.6129 |
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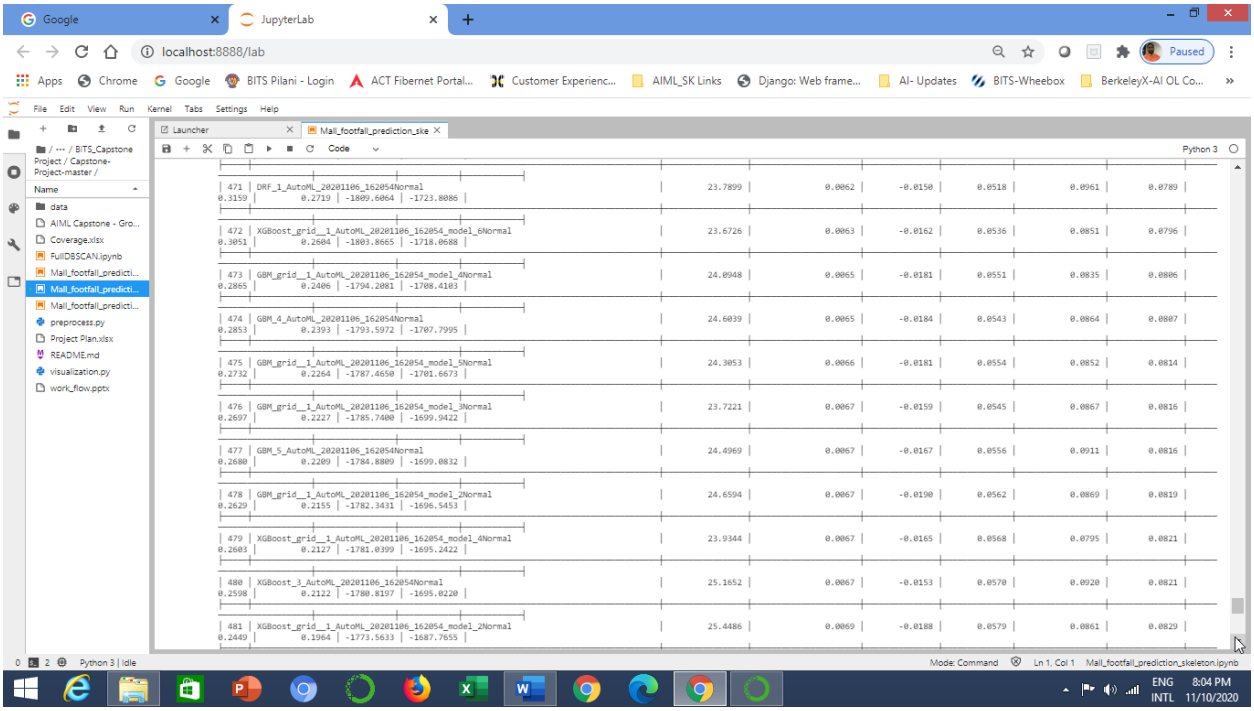
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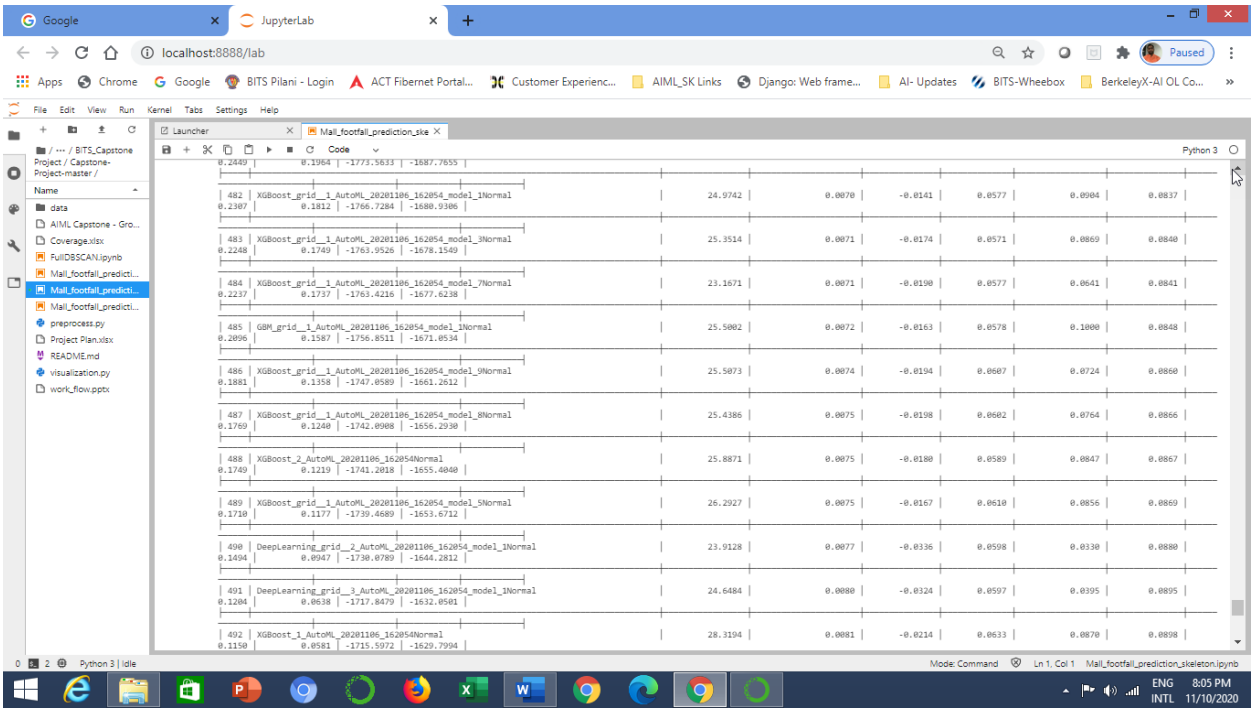
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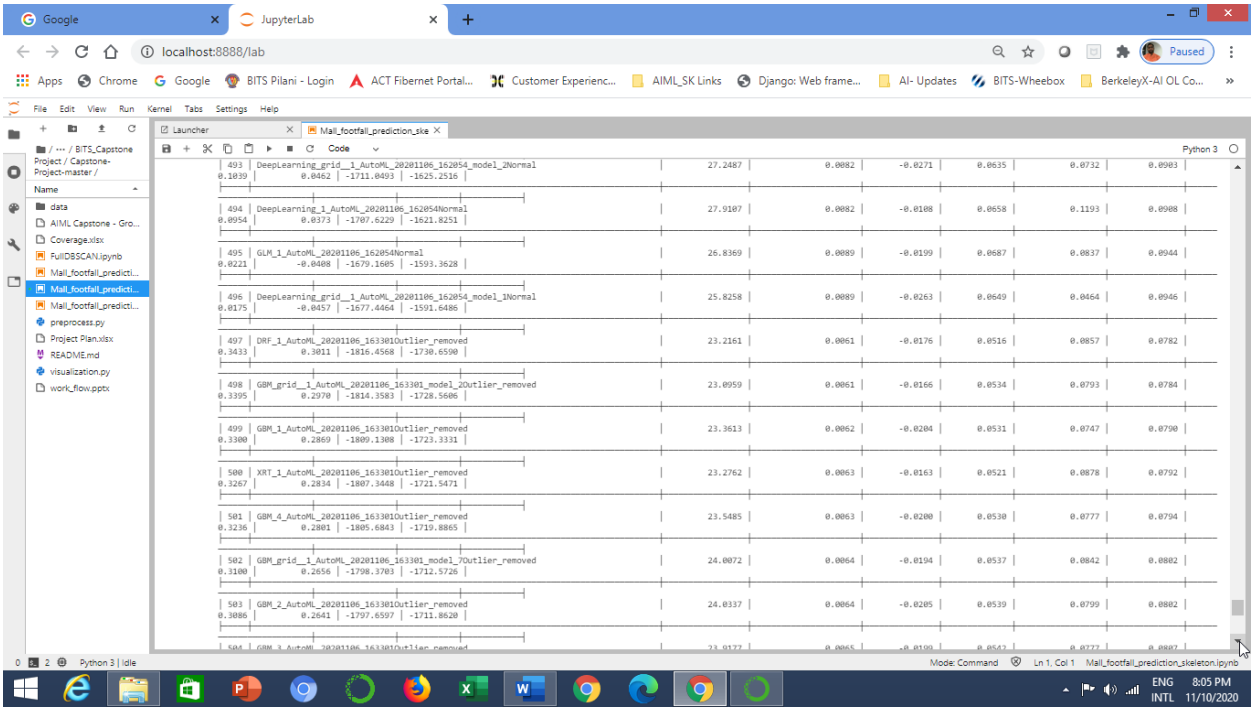
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| 493 | DeepLearning_grid__1_AutoML_20201106_162054_model_2Normal | 27.2487 | 0.0082 | -0.0271 | 0.0635 | 0.0732 | 0.0903 |
0.1039 | 0.0462 | -1711.0493 | -1625.2516 |
| 494 | DeepLearning_1_AutoML_20201106_162054Normal | 27.9107 | 0.0082 | -0.0108 | 0.0658 | 0.1193 | 0.0908 |
0.0954 | 0.0373 | -1707.6229 | -1621.8251 |
| 495 | GLM_1_AutoML_20201106_162054Normal | 26.8369 | 0.0089 | -0.0199 | 0.0687 | 0.0837 | 0.0944 |
0.0221 | -0.0408 | -1679.1605 | -1593.3628 |
| 496 | DeepLearning_grid__1_AutoML_20201106_162054_model_1Normal | 25.8258 | 0.0089 | -0.0263 | 0.0649 | 0.0464 | 0.0946 |
0.0175 | -0.0457 | -1677.4464 | -1591.6486 |
| 497 | DRF_1_AutoML_20201106_163301Outlier_removed | 23.2161 | 0.0061 | -0.0176 | 0.0516 | 0.0857 | 0.0782 |
0.3433 | 0.3011 | -1816.4568 | -1730.6590 |
| 498 | GBM_grid__1_AutoML_20201106_163301_model_2Outlier_removed | 23.0959 | 0.0061 | -0.0166 | 0.0534 | 0.0793 | 0.0784 |
0.3395 | 0.2970 | -1814.3583 | -1728.5606 |
| 499 | GBM_1_AutoML_20201106_163301Outlier_removed | 23.3613 | 0.0062 | -0.0204 | 0.0531 | 0.0747 | 0.0790 |
0.3300 | 0.2869 | -1809.1308 | -1723.3331 |
| 500 | XRT_1_AutoML_20201106_163301Outlier_removed | 23.2762 | 0.0063 | -0.0163 | 0.0521 | 0.0878 | 0.0792 |
0.3267 | 0.2834 | -1807.3448 | -1721.5471 |
| 501 | GBM_4_AutoML_20201106_163301Outlier_removed | 23.5485 | 0.0063 | -0.0200 | 0.0530 | 0.0777 | 0.0794 |
0.3236 | 0.2801 | -1805.6843 | -1719.8865 |
| 502 | GBM_grid__1_AutoML_20201106_163301_model_7Outlier_removed | 24.0072 | 0.0064 | -0.0194 | 0.0537 | 0.0842 | 0.0802 |
0.3100 | 0.2656 | -1798.3703 | -1712.5726 |
| 503 | GBM_2_AutoML_20201106_163301Outlier_removed | 24.0337 | 0.0064 | -0.0205 | 0.0539 | 0.0799 | 0.0802 |
0.3086 | 0.2641 | -1797.6597 | -1711.8620 |
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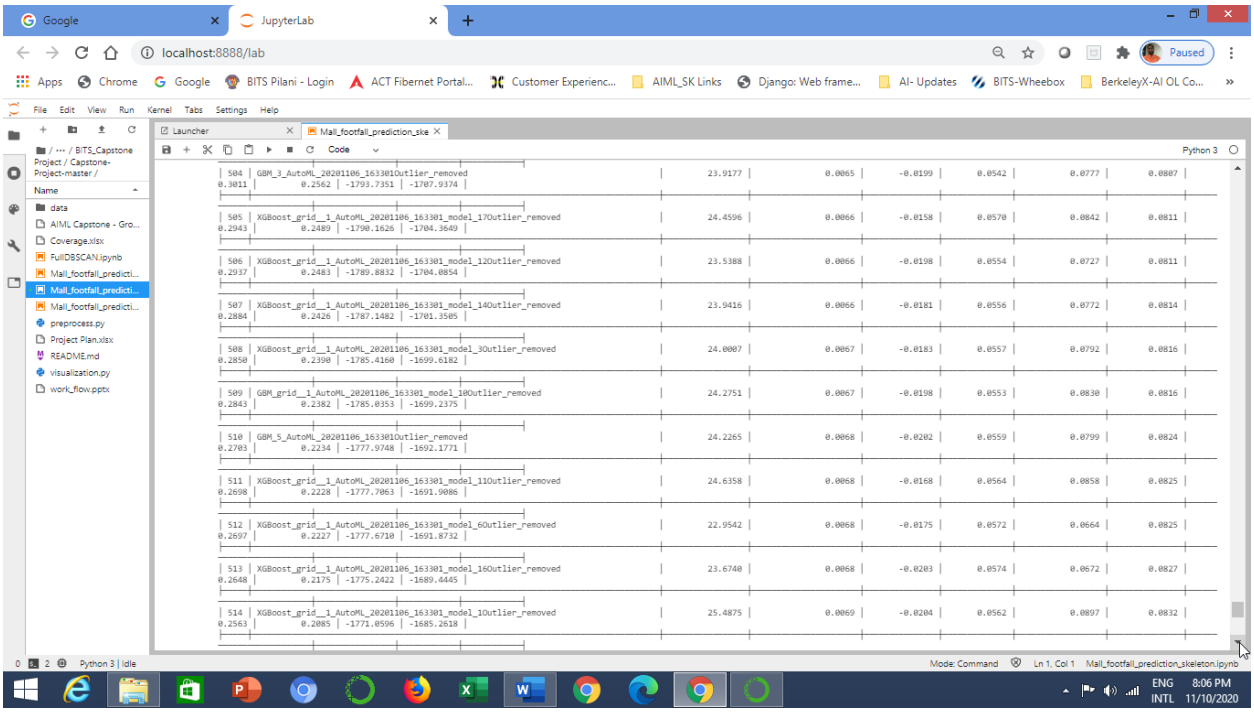
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| 504 | GBM_3_AutoML_20201106_163301Outlier_removed | 23.9177 | 0.0065 | -0.0199 | 0.0542 | 0.0777 | 0.0807 |
0.3011 | 0.2562 | -1793.7351 | -1707.9374 |
| 505 | XGBoost_grid__1_AutoML_20201106_163301_model_17Outlier_removed | 24.4596 | 0.0066 | -0.0158 | 0.0570 | 0.0842 | 0.0811 |
0.2943 | 0.2489 | -1790.1626 | -1704.3649 |
| 506 | XGBoost_grid__1_AutoML_20201106_163301_model_12Outlier_removed | 23.5388 | 0.0066 | -0.0198 | 0.0554 | 0.0727 | 0.0811 |
0.2937 | 0.2483 | -1789.8832 | -1704.0854 |
| 507 | XGBoost_grid__1_AutoML_20201106_163301_model_14Outlier_removed | 23.9416 | 0.0066 | -0.0181 | 0.0556 | 0.0772 | 0.0814 |
0.2884 | 0.2426 | -1787.1482 | -1701.3505 |
| 508 | XGBoost_grid__1_AutoML_20201106_163301_model_3Outlier_removed | 24.0007 | 0.0067 | -0.0183 | 0.0557 | 0.0792 | 0.0816 |
0.2850 | 0.2390 | -1785.4160 | -1699.6182 |
| 509 | GBM_grid__1_AutoML_20201106_163301_model_18Outlier_removed | 24.2751 | 0.0067 | -0.0198 | 0.0553 | 0.0830 | 0.0816 |
0.2843 | 0.2382 | -1785.0353 | -1699.2375 |
| 510 | GBM_5_AutoML_20201106_163301Outlier_removed | 24.2265 | 0.0068 | -0.0202 | 0.0559 | 0.0799 | 0.0824 |
0.2703 | 0.2234 | -1777.9748 | -1692.1771 |
| 511 | XGBoost_grid__1_AutoML_20201106_163301_model_11Outlier_removed | 24.6358 | 0.0068 | -0.0168 | 0.0564 | 0.0858 | 0.0825 |
0.2698 | 0.2228 | -1777.7063 | -1691.9086 |
| 512 | XGBoost_grid__1_AutoML_20201106_163301_model_6Outlier_removed | 22.9542 | 0.0068 | -0.0175 | 0.0572 | 0.0664 | 0.0825 |
0.2697 | 0.2227 | -1777.6710 | -1691.8732 |
| 513 | XGBoost_grid__1_AutoML_20201106_163301_model_16Outlier_removed | 23.6740 | 0.0068 | -0.0203 | 0.0574 | 0.0672 | 0.0827 |
0.2648 | 0.2175 | -1775.2422 | -1689.4445 |
| 514 | XGBoost_grid__1_AutoML_20201106_163301_model_10Outlier_removed | 25.4875 | 0.0069 | -0.0204 | 0.0562 | 0.0897 | 0.0832 |
0.2563 | 0.2085 | -1771.0596 | -1685.2618 |
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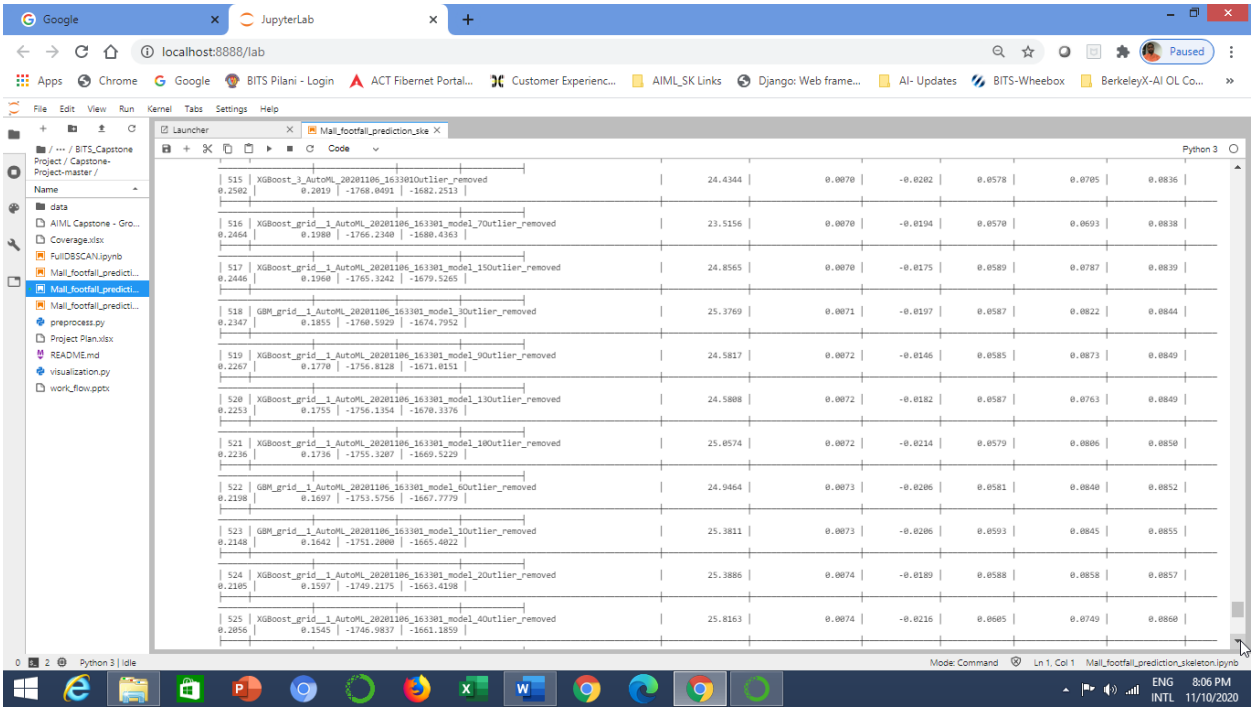
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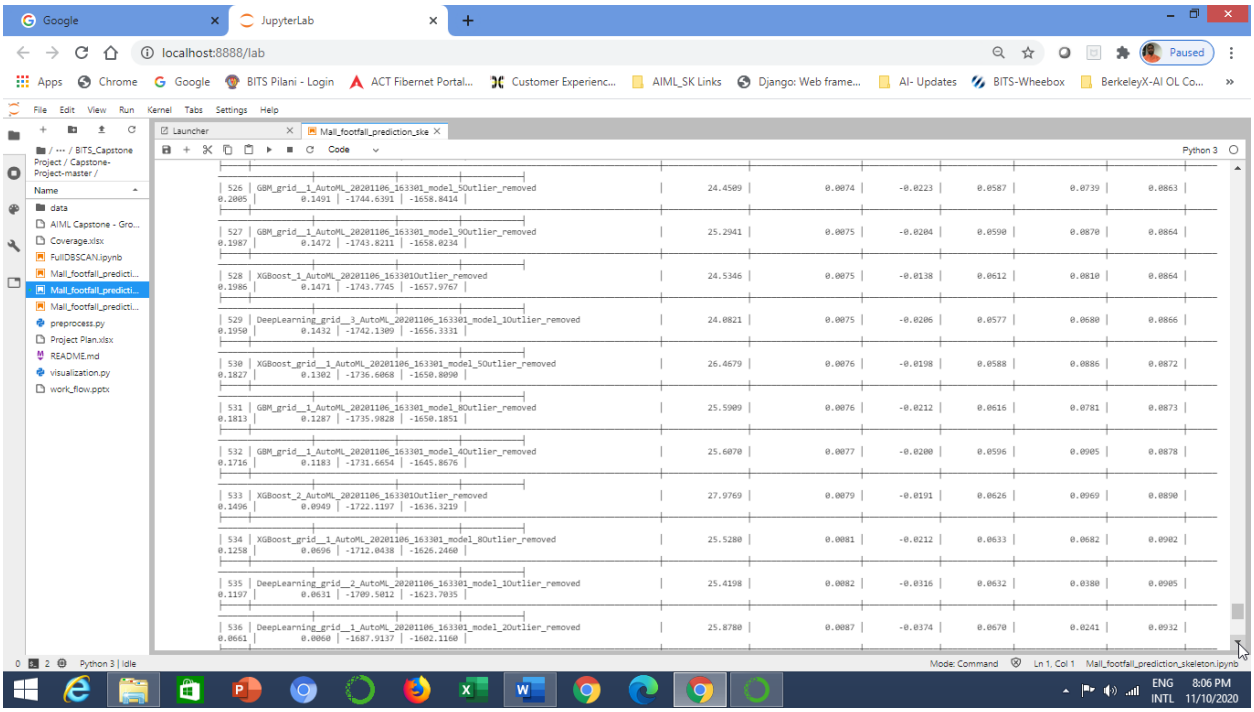
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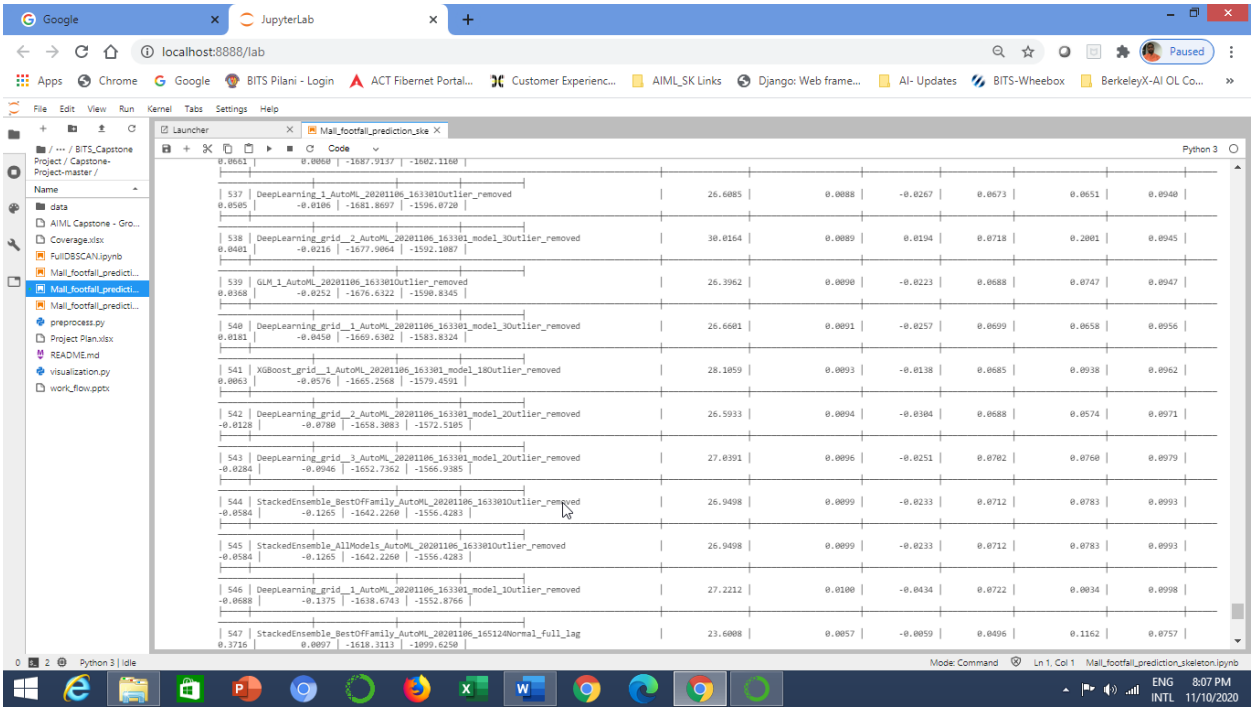
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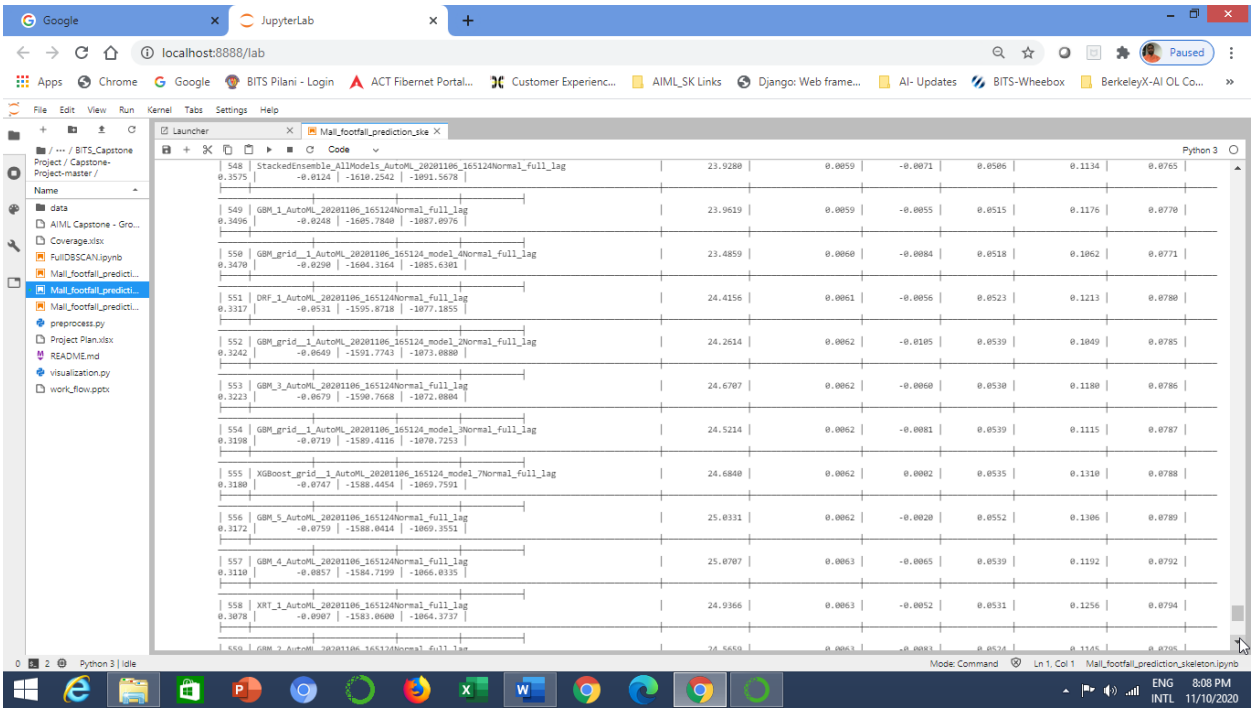
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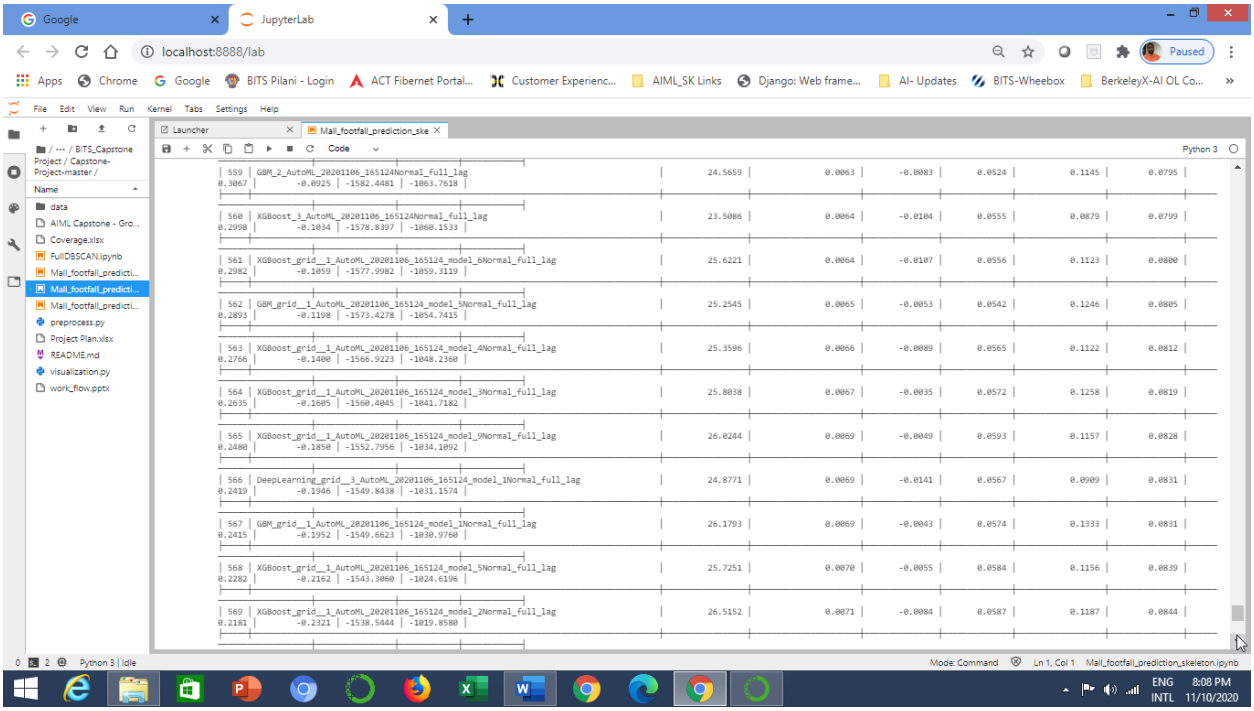
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559	GBM_2_AutoML_20201106_165124Normal_full_lag	24.5659	0.0063	-0.0083	0.0524	0.1145	0.0795	0.3067	-0.0925	-1582.4481	-1063.7618
560	XGBoost_3_AutoML_20201106_165124Normal_full_lag	23.5086	0.0064	-0.0104	0.0555	0.0879	0.0799	0.2998	-0.1034	-1578.8397	-1060.1533
561	XGBoost_grid__1_AutoML_20201106_165124_model_6Normal_full_lag	25.6221	0.0064	-0.0107	0.0556	0.1123	0.0800	0.2982	-0.1059	-1577.9982	-1059.3119
562	GBM_grid__1_AutoML_20201106_165124_model_5Normal_full_lag	25.2545	0.0065	-0.0053	0.0542	0.1246	0.0805	0.2893	-0.1198	-1573.4278	-1054.7415
563	XGBoost_grid__1_AutoML_20201106_165124_model_4Normal_full_lag	25.3596	0.0066	-0.0089	0.0565	0.1122	0.0812	0.2766	-0.1400	-1566.9223	-1048.2360
564	XGBoost_grid__1_AutoML_20201106_165124_model_3Normal_full_lag	25.8038	0.0067	-0.0035	0.0572	0.1258	0.0819	0.2635	-0.1605	-1560.4045	-1041.7182
565	XGBoost_grid__1_AutoML_20201106_165124_model_9Normal_full_lag	26.0244	0.0069	-0.0049	0.0593	0.1157	0.0828	0.2480	-0.1850	-1552.7956	-1034.1092
566	DeepLearning_grid__3_AutoML_20201106_165124_model_1Normal_full_lag	24.8771	0.0069	-0.0141	0.0567	0.0909	0.0831	0.2419	-0.1946	-1549.8438	-1031.1574
567	GBM_grid__1_AutoML_20201106_165124_model_1Normal_full_lag	26.1793	0.0069	-0.0043	0.0574	0.1333	0.0831	0.2415	-0.1952	-1549.6623	-1030.9760
568	XGBoost_grid__1_AutoML_20201106_165124_model_5Normal_full_lag	25.7251	0.0070	-0.0055	0.0584	0.1156	0.0839	0.2282	-0.2162	-1543.3060	-1024.6196
569	XGBoost_grid__1_AutoML_20201106_165124_model_2Normal_full_lag	26.5152	0.0071	-0.0084	0.0587	0.1187	0.0844	0.2181	-0.2321	-1538.5444	-1019.8580
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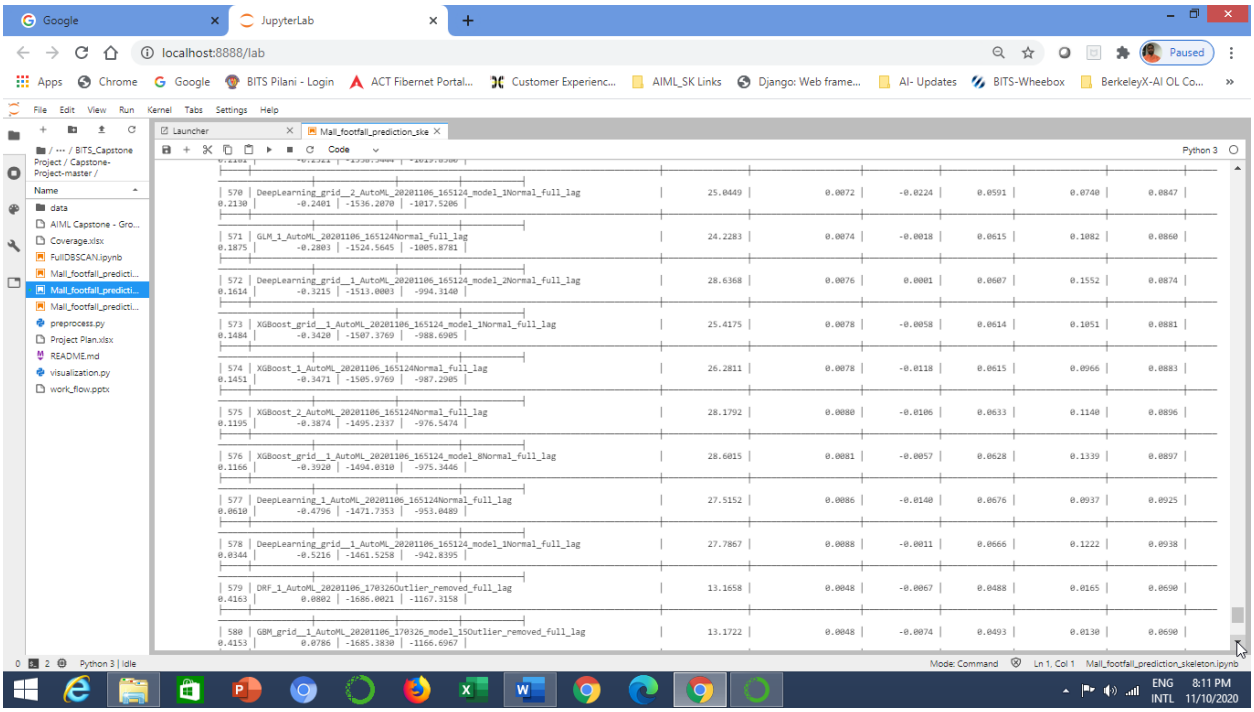
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570	DeepLearning_grid__2_AutoML_20201106_165124_model_1Normal_full_lag	25.0449	0.0072	-0.0224	0.0591	0.0740	0.0847	0.2130	-0.2401	-1536.2070	-1017.5206
571	GLM_1_AutoML_20201106_165124Normal_full_lag	24.2283	0.0074	-0.0018	0.0615	0.1082	0.0860	0.1875	-0.2803	-1524.5645	-1005.8781
572	DeepLearning_grid__1_AutoML_20201106_165124_model_2Normal_full_lag	28.6368	0.0076	0.0001	0.0607	0.1552	0.0874	0.1614	-0.3215	-1513.0003	-994.3140
573	XGBoost_grid__1_AutoML_20201106_165124_model_1Normal_full_lag	25.4175	0.0078	-0.0058	0.0614	0.1051	0.0881	0.1484	-0.3420	-1507.3769	-988.6905
574	XGBoost_1_AutoML_20201106_165124Normal_full_lag	26.2811	0.0078	-0.0118	0.0615	0.0966	0.0883	0.1451	-0.3471	-1505.9769	-987.2905
575	XGBoost_2_AutoML_20201106_165124Normal_full_lag	28.1792	0.0080	-0.0106	0.0633	0.1140	0.0896	0.1195	-0.3874	-1495.2337	-976.5474
576	XGBoost_grid__1_AutoML_20201106_165124_model_8Normal_full_lag	28.6015	0.0081	-0.0057	0.0628	0.1339	0.0897	0.1166	-0.3920	-1494.0310	-975.3446
577	DeepLearning_1_AutoML_20201106_165124Normal_full_lag	27.5152	0.0086	-0.0140	0.0676	0.0937	0.0925	0.0610	-0.4796	-1471.7353	-953.0489
578	DeepLearning_grid__1_AutoML_20201106_165124_model_1Normal_full_lag	27.7867	0.0088	-0.0011	0.0666	0.1222	0.0938	0.0344	-0.5216	-1461.5258	-942.8395
579	DRF_1_AutoML_20201106_170326Outlier_removed_full_lag	13.1658	0.0048	-0.0067	0.0488	0.0165	0.0690	0.4163	0.0802	-1686.0021	-1167.3158
580	GBM_grid__1_AutoML_20201106_170326_model_15Outlier_removed_full_lag	13.1722	0.0048	-0.0074	0.0493	0.0130	0.0690	0.4153	0.0786	-1685.3830	-1166.6967
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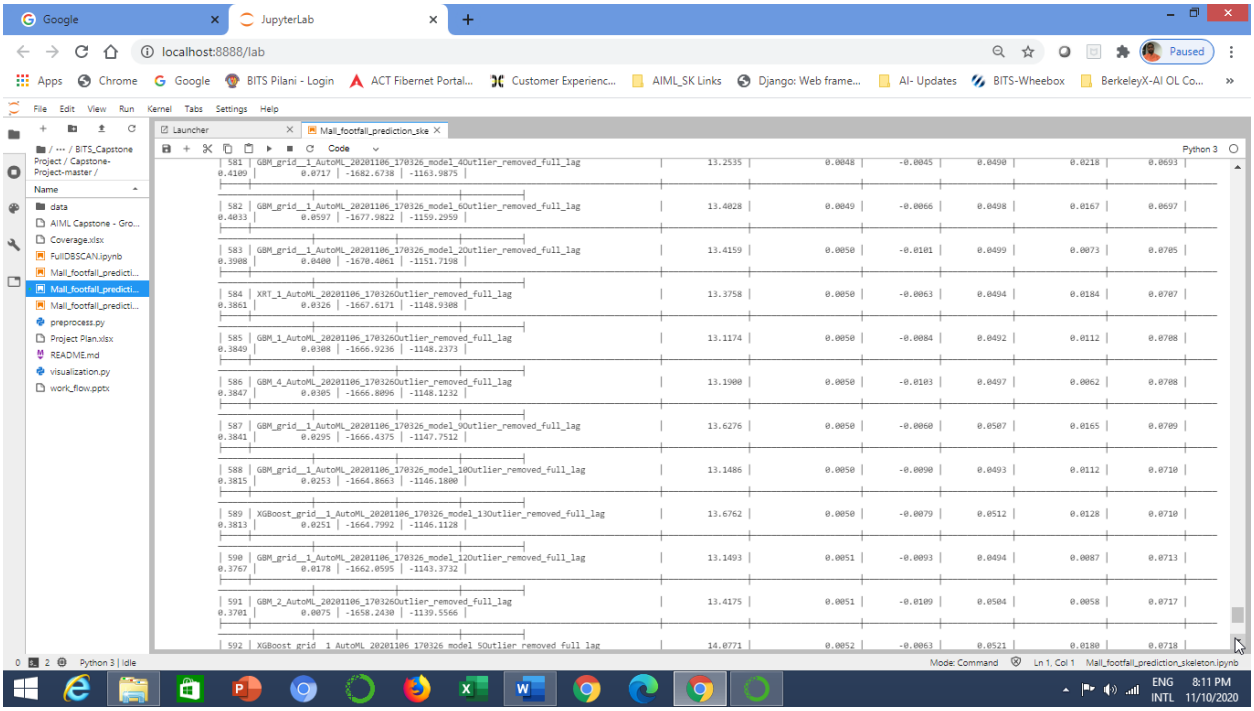
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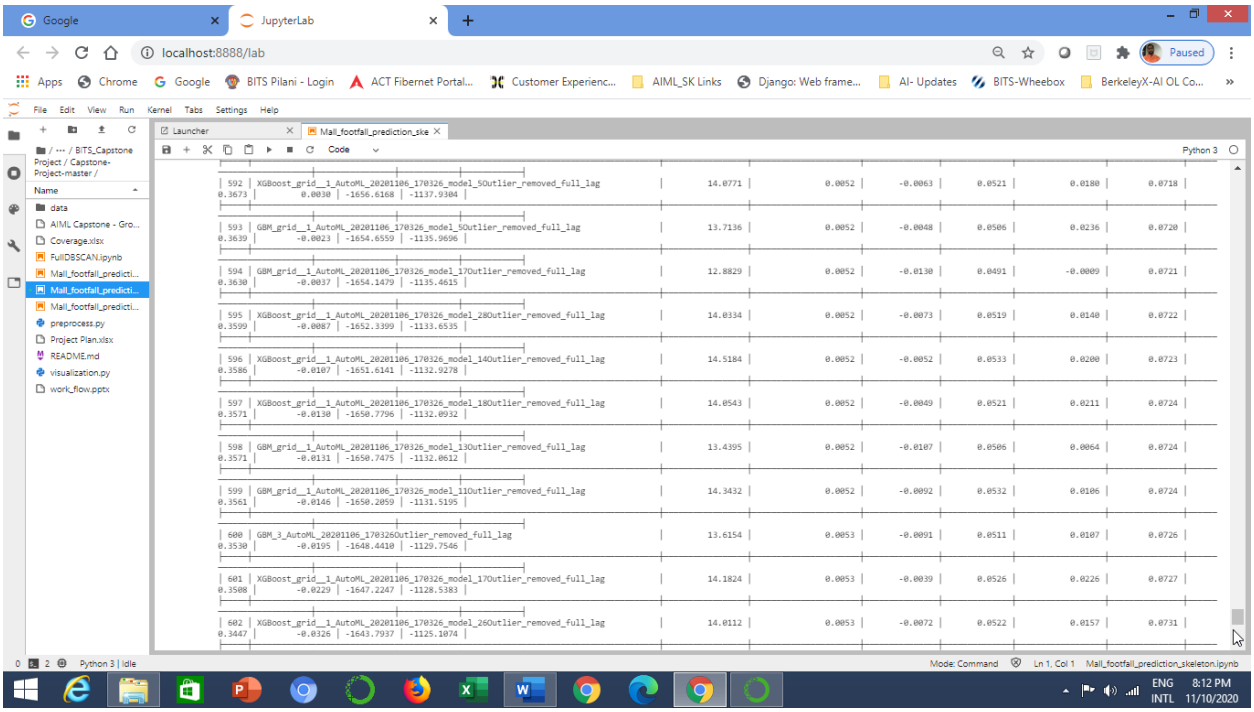
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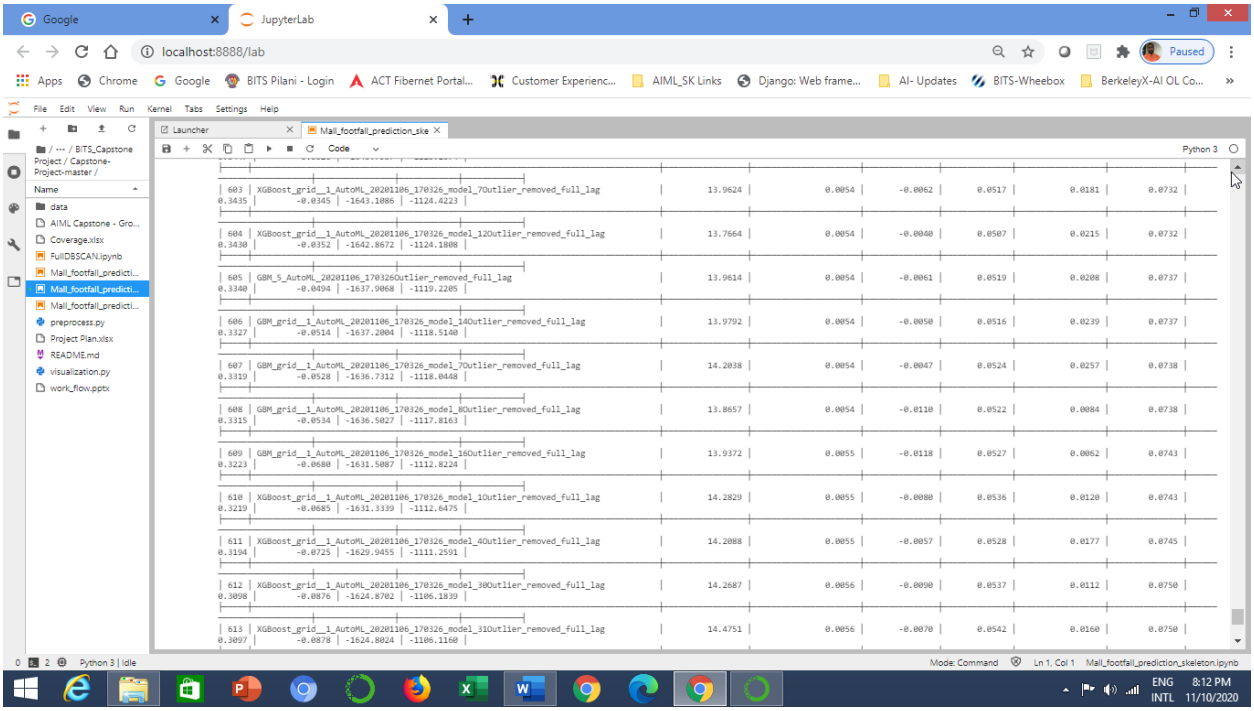
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603 | XGBoost_grid__1_AutoML_20201106_170326_model_7Outlier_removed_full_lag | 13.9624 | 0.0054 | -0.0062 | 0.0517 | 0.0181 | 0.0732 | 0.3435 | -0.0345 | -1643.1086 | -1124.4223 |
604 | XGBoost_grid__1_AutoML_20201106_170326_model_12Outlier_removed_full_lag | 13.7664 | 0.0054 | -0.0040 | 0.0507 | 0.0215 | 0.0732 | 0.3430 | -0.0352 | -1642.8672 | -1124.1808 |
605 | GBM_5_AutoML_20201106_170326Outlier_removed_full_lag | 13.9614 | 0.0054 | -0.0061 | 0.0519 | 0.0208 | 0.0737 | 0.3340 | -0.0494 | -1637.9068 | -1119.2205 |
606 | GBM_grid__1_AutoML_20201106_170326_model_14Outlier_removed_full_lag | 13.9792 | 0.0054 | -0.0050 | 0.0516 | 0.0239 | 0.0737 | 0.3327 | -0.0514 | -1637.2004 | -1118.5140 |
607 | GBM_grid__1_AutoML_20201106_170326_model_7Outlier_removed_full_lag | 14.2038 | 0.0054 | -0.0047 | 0.0524 | 0.0257 | 0.0738 | 0.3319 | -0.0528 | -1636.7312 | -1118.0448 |
608 | GBM_grid__1_AutoML_20201106_170326_model_8Outlier_removed_full_lag | 13.8657 | 0.0054 | -0.0110 | 0.0522 | 0.0084 | 0.0738 | 0.3315 | -0.0534 | -1636.5027 | -1117.8163 |
609 | GBM_grid__1_AutoML_20201106_170326_model_16Outlier_removed_full_lag | 13.9372 | 0.0055 | -0.0118 | 0.0527 | 0.0062 | 0.0743 | 0.3223 | -0.0680 | -1631.5087 | -1112.8224 |
610 | XGBoost_grid__1_AutoML_20201106_170326_model_1Outlier_removed_full_lag | 14.2829 | 0.0055 | -0.0080 | 0.0536 | 0.0120 | 0.0743 | 0.3219 | -0.0685 | -1631.3339 | -1112.6475 |
611 | XGBoost_grid__1_AutoML_20201106_170326_model_4Outlier_removed_full_lag | 14.2088 | 0.0055 | -0.0057 | 0.0528 | 0.0177 | 0.0745 | 0.3194 | -0.0725 | -1629.9455 | -1111.2591 |
612 | XGBoost_grid__1_AutoML_20201106_170326_model_30Outlier_removed_full_lag | 14.2687 | 0.0056 | -0.0090 | 0.0537 | 0.0112 | 0.0750 | 0.3098 | -0.0876 | -1624.8702 | -1106.1839 |
613 | XGBoost_grid__1_AutoML_20201106_170326_model_31Outlier_removed_full_lag | 14.4751 | 0.0056 | -0.0070 | 0.0542 | 0.0160 | 0.0750 | 0.3097 | -0.0878 | -1624.8024 | -1106.1160 |
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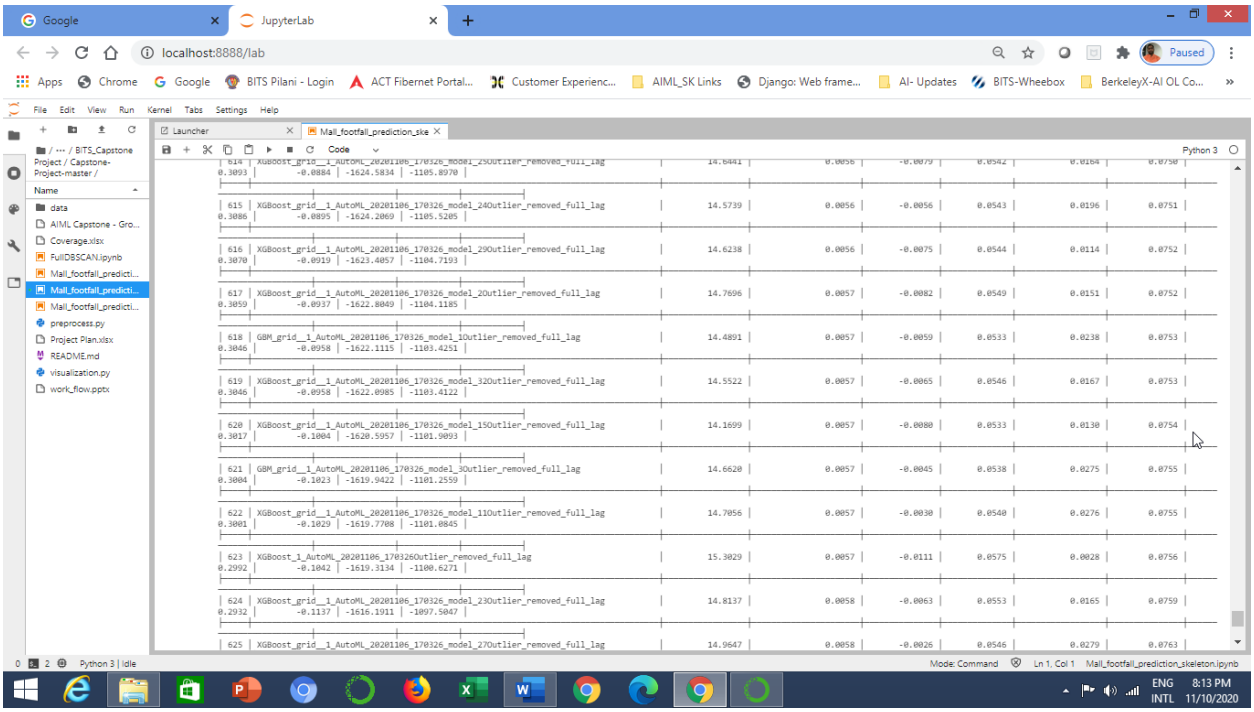
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615 | XGBoost_grid__1_AutoML_20201106_170326_model_24Outlier_removed_full_lag | 14.5739 | 0.0056 | -0.0056 | 0.0543 | 0.0196 | 0.0751 | 0.3086 | -0.0895 | -1624.2069 | -1105.5205 |
616 | XGBoost_grid__1_AutoML_20201106_170326_model_29Outlier_removed_full_lag | 14.6238 | 0.0056 | -0.0075 | 0.0544 | 0.0114 | 0.0752 | 0.3070 | -0.0919 | -1623.4057 | -1104.7193 |
617 | XGBoost_grid__1_AutoML_20201106_170326_model_2Outlier_removed_full_lag | 14.7696 | 0.0057 | -0.0082 | 0.0549 | 0.0151 | 0.0752 | 0.3059 | -0.0937 | -1622.8049 | -1104.1185 |
618 | GBM_grid__1_AutoML_20201106_170326_model_1Outlier_removed_full_lag | 14.4891 | 0.0057 | -0.0059 | 0.0533 | 0.0238 | 0.0753 | 0.3046 | -0.0958 | -1622.1115 | -1103.4251 |
619 | XGBoost_grid__1_AutoML_20201106_170326_model_32Outlier_removed_full_lag | 14.5522 | 0.0057 | -0.0065 | 0.0546 | 0.0167 | 0.0753 | 0.3046 | -0.0958 | -1622.0985 | -1103.4122 |
620 | XGBoost_grid__1_AutoML_20201106_170326_model_15Outlier_removed_full_lag | 14.1699 | 0.0057 | -0.0080 | 0.0533 | 0.0130 | 0.0754 | 0.3017 | -0.1004 | -1620.5957 | -1101.9093 |
621 | GBM_grid__1_AutoML_20201106_170326_model_3Outlier_removed_full_lag | 14.6620 | 0.0057 | -0.0045 | 0.0538 | 0.0275 | 0.0755 | 0.3004 | -0.1023 | -1619.9422 | -1101.2559 |
622 | XGBoost_grid__1_AutoML_20201106_170326_model_11Outlier_removed_full_lag | 14.7056 | 0.0057 | -0.0038 | 0.0540 | 0.0276 | 0.0755 | 0.3001 | -0.1029 | -1619.7708 | -1101.0845 |
623 | XGBoost_1_AutoML_20201106_170326Outlier_removed_full_lag | 15.3029 | 0.0057 | -0.0111 | 0.0575 | 0.0028 | 0.0756 | 0.2992 | -0.1042 | -1619.3134 | -1100.6271 |
624 | XGBoost_grid__1_AutoML_20201106_170326_model_23Outlier_removed_full_lag | 14.8137 | 0.0058 | -0.0063 | 0.0553 | 0.0165 | 0.0759 | 0.2932 | -0.1137 | -1616.1911 | -1097.5047 |
625 | XGBoost_grid__1_AutoML_20201106_170326_model_27Outlier_removed_full_lag | 14.9647 | 0.0058 | -0.0026 | 0.0546 | 0.0279 | 0.0763 |
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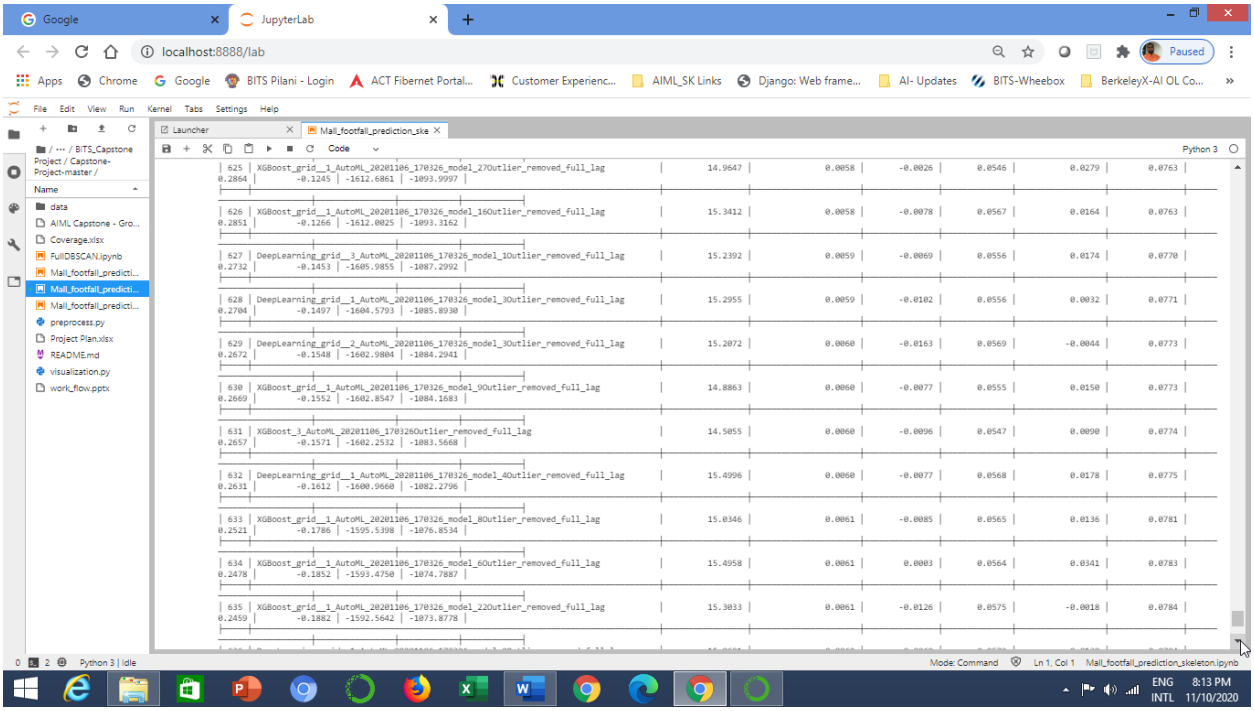
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625 | XGBoost_grid__1_AutoML_20201106_170326_model_27Outlier_removed_full_lag | 14.9647 | 0.0058 | -0.0026 | 0.0546 | 0.0279 | 0.0763 | 0.2864 | -0.1245 | -1612.6861 | -1093.9997 |
626 | XGBoost_grid__1_AutoML_20201106_170326_model_16Outlier_removed_full_lag | 15.3412 | 0.0058 | -0.0078 | 0.0567 | 0.0164 | 0.0763 | 0.2851 | -0.1266 | -1612.0025 | -1093.3162 |
627 | DeepLearning_grid__3_AutoML_20201106_170326_model_1Outlier_removed_full_lag | 15.2392 | 0.0059 | -0.0069 | 0.0556 | 0.0174 | 0.0770 | 0.2732 | -0.1453 | -1605.9855 | -1087.2992 |
628 | DeepLearning_grid__1_AutoML_20201106_170326_model_3Outlier_removed_full_lag | 15.2955 | 0.0059 | -0.0102 | 0.0556 | 0.0032 | 0.0771 | 0.2704 | -0.1497 | -1604.5793 | -1085.8930 |
629 | DeepLearning_grid__2_AutoML_20201106_170326_model_3Outlier_removed_full_lag | 15.2072 | 0.0060 | -0.0163 | 0.0569 | -0.0044 | 0.0773 | 0.2672 | -0.1548 | -1602.9804 | -1084.2941 |
630 | XGBoost_grid__1_AutoML_20201106_170326_model_9Outlier_removed_full_lag | 14.8863 | 0.0060 | -0.0077 | 0.0555 | 0.0150 | 0.0773 | 0.2669 | -0.1552 | -1602.8547 | -1084.1683 |
631 | XGBoost_3_AutoML_20201106_170326Outlier_removed_full_lag | 14.5055 | 0.0060 | -0.0096 | 0.0547 | 0.0090 | 0.0774 | 0.2657 | -0.1571 | -1602.2532 | -1083.5668 |
632 | DeepLearning_grid__1_AutoML_20201106_170326_model_4Outlier_removed_full_lag | 15.4996 | 0.0060 | -0.0077 | 0.0568 | 0.0178 | 0.0775 | 0.2631 | -0.1612 | -1600.9660 | -1082.2796 |
633 | XGBoost_grid__1_AutoML_20201106_170326_model_8Outlier_removed_full_lag | 15.0346 | 0.0061 | -0.0085 | 0.0565 | 0.0136 | 0.0781 | 0.2521 | -0.1786 | -1595.5398 | -1076.8534 |
634 | XGBoost_grid__1_AutoML_20201106_170326_model_6Outlier_removed_full_lag | 15.4958 | 0.0061 | 0.0003 | 0.0564 | 0.0341 | 0.0783 | 0.2478 | -0.1852 | -1593.4750 | -1074.7887 |
635 | XGBoost_grid__1_AutoML_20201106_170326_model_22Outlier_removed_full_lag | 15.3033 | 0.0061 | -0.0126 | 0.0575 | -0.0018 | 0.0784 | 0.2459 | -0.1882 | -1592.5642 | -1073.8778
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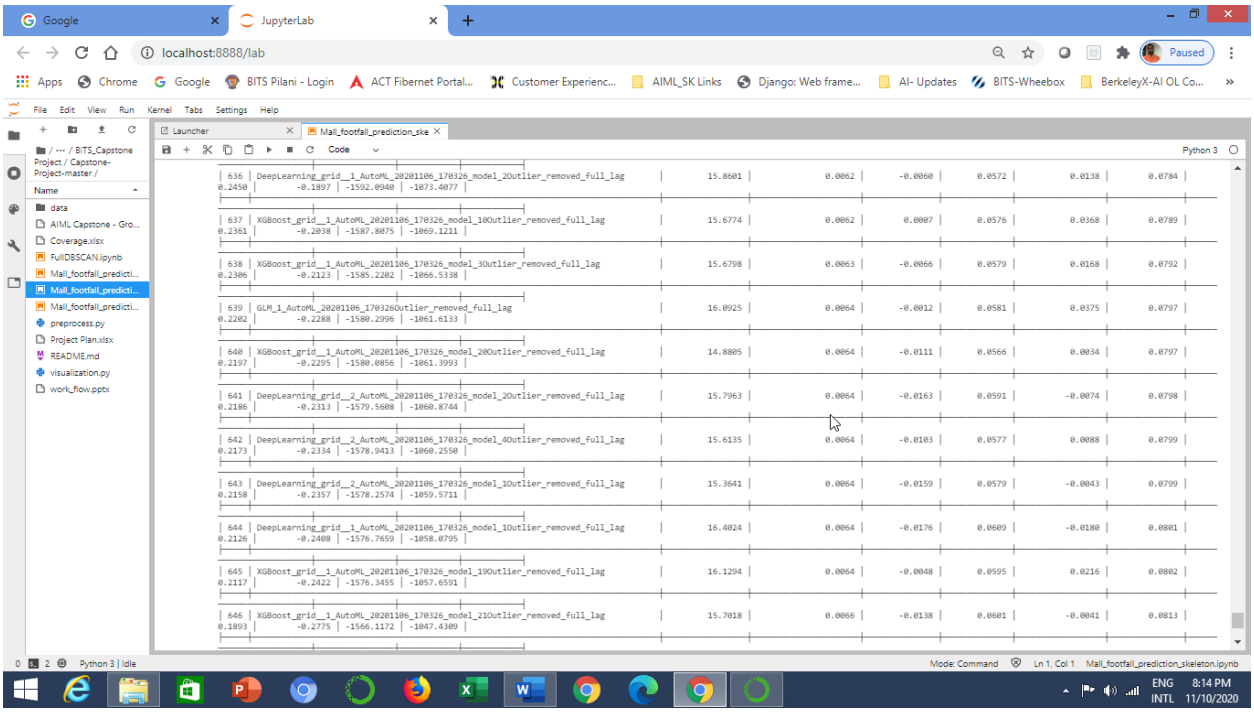
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636 | DeepLearning_grid__1_AutoML_20201106_170326_model_2Outlier_removed_full_lag | 15.8601 | 0.0062 | -0.0060 | 0.0572 | 0.0138 | 0.0784 | 0.2450 | -0.1897 | -1592.0940 | -1073.4077 |
637 | XGBoost_grid__1_AutoML_20201106_170326_model_18Outlier_removed_full_lag | 15.6774 | 0.0062 | 0.0007 | 0.0576 | 0.0368 | 0.0789 | 0.2361 | -0.2038 | -1587.8075 | -1069.1211 |
638 | XGBoost_grid__1_AutoML_20201106_170326_model_3Outlier_removed_full_lag | 15.6798 | 0.0063 | -0.0066 | 0.0579 | 0.0168 | 0.0792 | 0.2306 | -0.2123 | -1585.2202 | -1066.5338 |
639 | GLM_1_AutoML_20201106_170326Outlier_removed_full_lag | 16.0925 | 0.0064 | -0.0012 | 0.0581 | 0.0375 | 0.0797 | 0.2202 | -0.2288 | -1580.2996 | -1061.6133 |
640 | XGBoost_grid__1_AutoML_20201106_170326_model_28Outlier_removed_full_lag | 14.8805 | 0.0064 | -0.0111 | 0.0566 | 0.0034 | 0.0797 | 0.2197 | -0.2295 | -1580.0856 | -1061.3993 |
641 | DeepLearning_grid__2_AutoML_20201106_170326_model_2Outlier_removed_full_lag | 15.7963 | 0.0064 | -0.0163 | 0.0591 | -0.0074 | 0.0798 | 0.2186 | -0.2313 | -1579.5608 | -1060.8744 |
642 | DeepLearning_grid__2_AutoML_20201106_170326_model_4Outlier_removed_full_lag | 15.6135 | 0.0064 | -0.0103 | 0.0577 | 0.0088 | 0.0799 | 0.2173 | -0.2334 | -1578.9413 | -1060.2550 |
643 | DeepLearning_grid__2_AutoML_20201106_170326_model_1Outlier_removed_full_lag | 15.3641 | 0.0064 | -0.0159 | 0.0579 | -0.0043 | 0.0799 | 0.2158 | -0.2357 | -1578.2574 | -1059.5711 |
644 | DeepLearning_grid__1_AutoML_20201106_170326_model_1Outlier_removed_full_lag | 16.4024 | 0.0064 | -0.0176 | 0.0609 | -0.0180 | 0.0801 | 0.2126 | -0.2408 | -1576.7659 | -1058.0795 |
645 | XGBoost_grid__1_AutoML_20201106_170326_model_19Outlier_removed_full_lag | 16.1294 | 0.0064 | -0.0048 | 0.0595 | 0.0216 | 0.0802 | 0.2117 | -0.2422 | -1576.3455 | -1057.6591 |
646 | XGBoost_grid__1_AutoML_20201106_170326_model_21Outlier_removed_full_lag | 15.7018 | 0.0066 | -0.0138 | 0.0601 | -0.0041 | 0.0813 | 0.1893 | -0.2775 | -1566.1172 | -1047.4309
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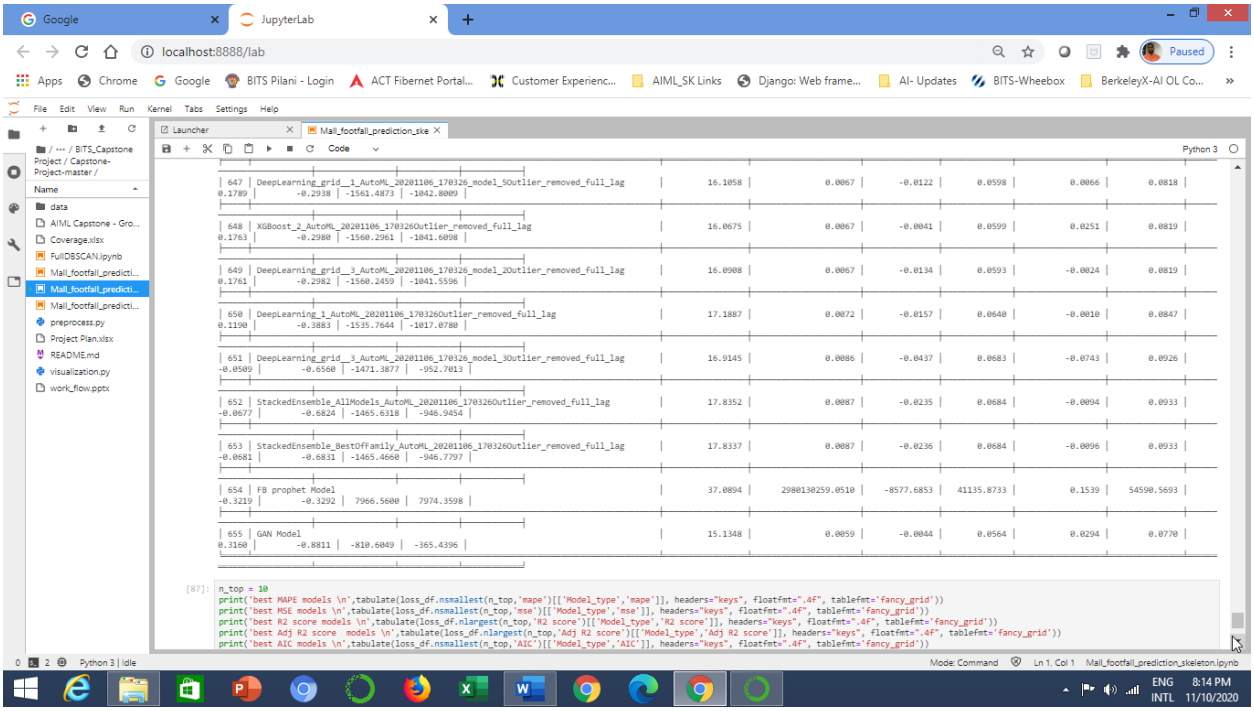

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0.1789	-0.2938	-1561.4873	-1042.8009				
648	XGBoost_2_AutoML_20201106_170326Outlier_removed_full_lag	16.0675	0.0067	-0.0041	0.0599	0.0251	0.0819
0.1763	-0.2980	-1560.2961	-1041.6098				
649	DeepLearning_grid__3_AutoML_20201106_170326_model_2Outlier_removed_full_lag	16.0908	0.0067	-0.0134	0.0593	-0.0024	0.0819
0.1761	-0.2982	-1560.2459	-1041.5596				
650	DeepLearning_1_AutoML_20201106_170326Outlier_removed_full_lag	17.1887	0.0072	-0.0157	0.0640	-0.0010	0.0847
0.1190	-0.3883	-1535.7644	-1017.0780				
651	DeepLearning_grid__3_AutoML_20201106_170326_model_3Outlier_removed_full_lag	16.9145	0.0086	-0.0437	0.0683	-0.0743	0.0926
-0.0509	-0.6560	-1471.3877	-952.7013				
652	StackedEnsemble_AllModels_AutoML_20201106_170326Outlier_removed_full_lag	17.8352	0.0087	-0.0235	0.0684	-0.0094	0.0933
-0.0677	-0.6824	-1465.6318	-946.9454				
653	StackedEnsemble_BestOfFamily_AutoML_20201106_170326Outlier_removed_full_lag	17.8337	0.0087	-0.0236	0.0684	-0.0096	0.0933
-0.0681	-0.6831	-1465.4660	-946.7797				
654	FB prophet Model	37.0894	2980130259.0510	-8577.6853	41135.8733	0.1539	54590.5693
-0.3219	-0.3292	7966.5600	7974.3598				
655	GAN Model	15.1348	0.0059	-0.0044	0.0564	0.0294	0.0770
0.3160	-0.8811	-810.6049	-365.4396				

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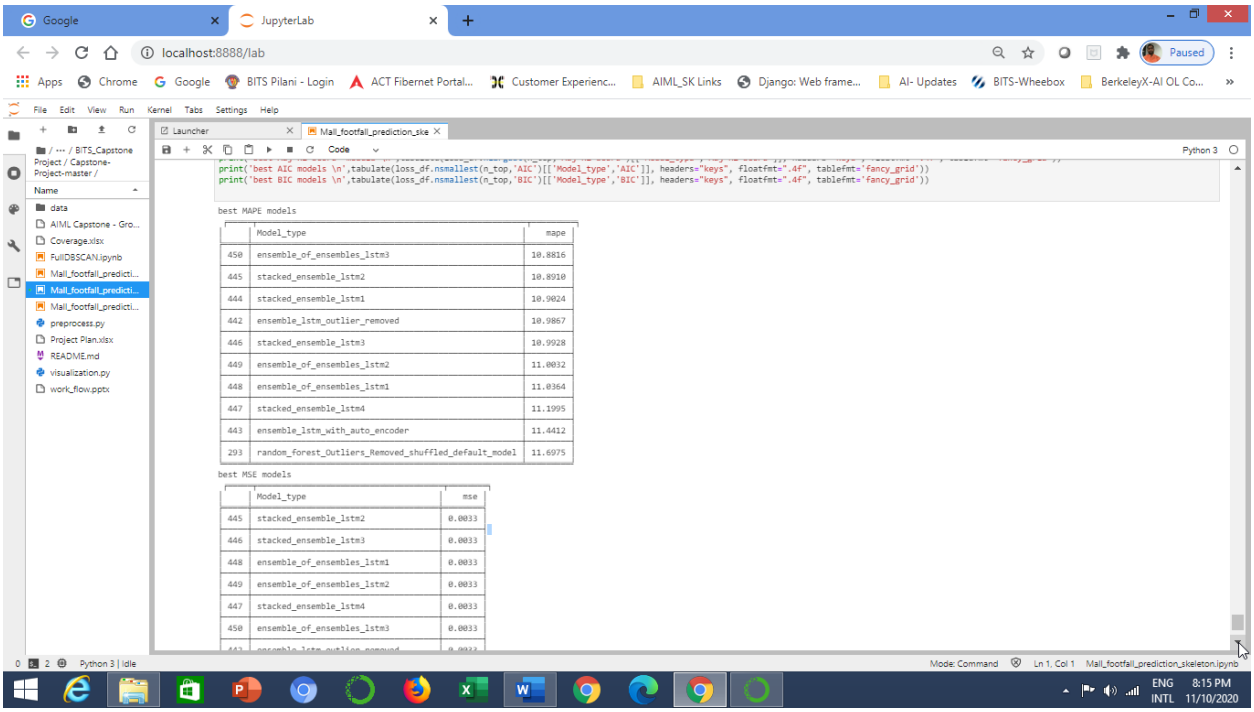
[87]: n_top = 10
print('best MAPE models \n',tabulate(loss_df.nsmallest(n_top,'mape')[['Model_type','mape']], headers="keys", floatfmt=".4f", tablefmt='fancy_grid'))
print('best MSE models \n',tabulate(loss_df.nsmallest(n_top,'mse')[['Model_type','mse']], headers="keys", floatfmt=".4f", tablefmt='fancy_grid'))
print('best R2 score models \n',tabulate(loss_df.nlargest(n_top,'R2 score')[['Model_type','R2 score']], headers="keys", floatfmt=".4f", tablefmt='fancy_grid'))
print('best Adj R2 score  models \n',tabulate(loss_df.nlargest(n_top,'Adj R2 score')[['Model_type','Adj R2 score']], headers="keys", floatfmt=".4f", tablefmt='fancy_grid'))
print('best AIC models \n',tabulate(loss_df.nsmallest(n_top,'AIC')[['Model_type','AIC']], headers="keys", floatfmt=".4f", tablefmt='fancy_grid'))
```



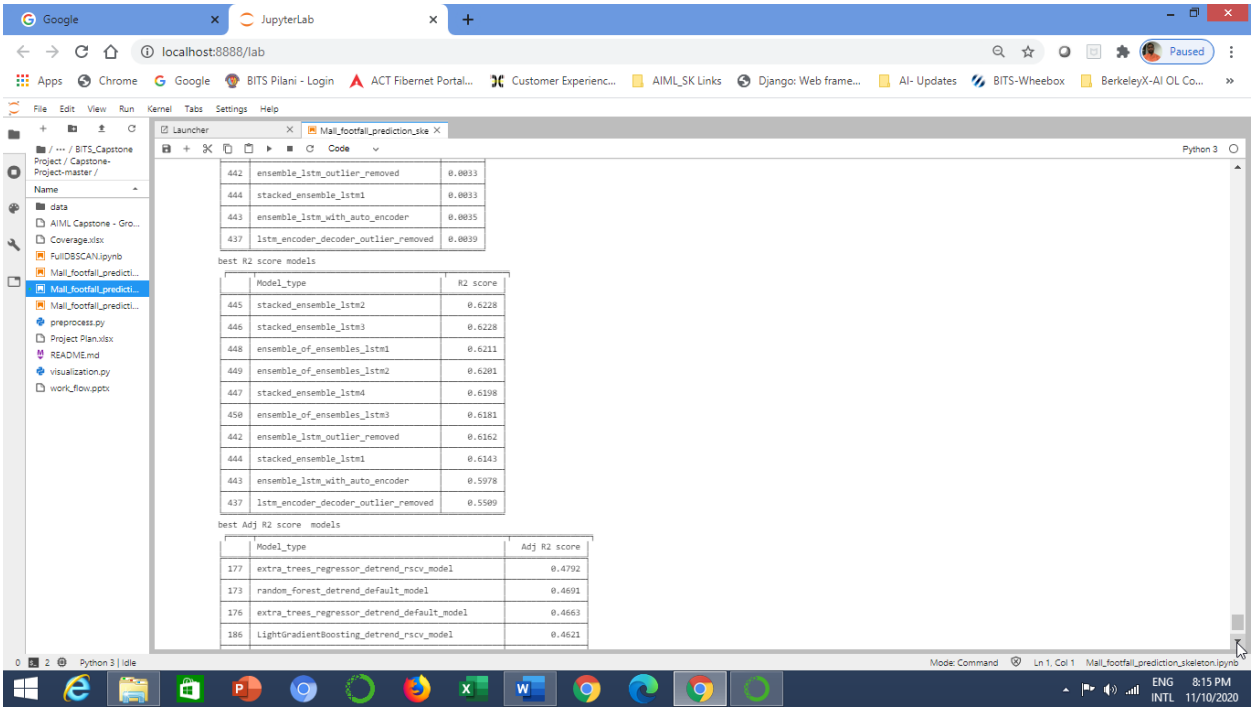
```
print('best AIC models \n',tabulate(loss_df.nsmallest(n_top,'AIC')[['Model_type','AIC']], headers="keys", floatfmt=".4f", tablefmt='fancy_grid'))
print('best BIC models \n',tabulate(loss_df.nsmallest(n_top,'BIC')[['Model_type','BIC']], headers="keys", floatfmt=".4f", tablefmt='fancy_grid'))
```

best MAPE models

	Model_type	mape
450	ensemble_of_ensembles_lstm3	10.8816
445	stacked_ensemble_lstm2	10.8910
444	stacked_ensemble_lstm1	10.9024
442	ensemble_lstm_outlier_removed	10.9867
446	stacked_ensemble_lstm3	10.9928
449	ensemble_of_ensembles_lstm2	11.0032
448	ensemble_of_ensembles_lstm1	11.0364
447	stacked_ensemble_lstm4	11.1995
443	ensemble_lstm_with_auto_encoder	11.4412
293	random_forest_Outliers_Removed_shuffled_default_model	11.6975

best MSE models

	Model_type	mse
445	stacked_ensemble_lstm2	0.0033
446	stacked_ensemble_lstm3	0.0033
448	ensemble_of_ensembles_lstm1	0.0033
449	ensemble_of_ensembles_lstm2	0.0033
447	stacked_ensemble_lstm4	0.0033
450	ensemble_of_ensembles_lstm3	0.0033



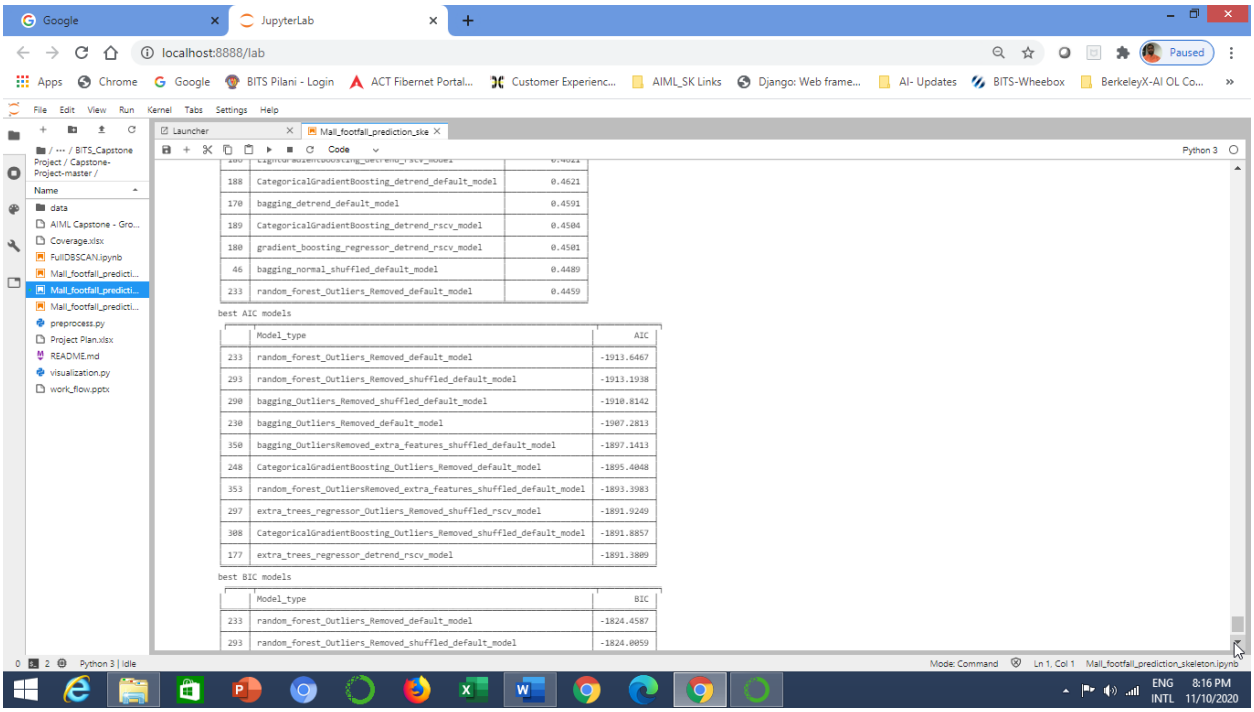
442	ensemble_lstm_outlier_removed	0.0033
444	stacked_ensemble_lstm1	0.0033
443	ensemble_lstm_with_auto_encoder	0.0035
437	lstm_encoder_decoder_outlier_removed	0.0039

best R2 score models

	Model_type	R2 score
445	stacked_ensemble_lstm2	0.6228
446	stacked_ensemble_lstm3	0.6228
448	ensemble_of_ensembles_lstm1	0.6211
449	ensemble_of_ensembles_lstm2	0.6201
447	stacked_ensemble_lstm4	0.6198
450	ensemble_of_ensembles_lstm3	0.6181
442	ensemble_lstm_outlier_removed	0.6162
444	stacked_ensemble_lstm1	0.6143
443	ensemble_lstm_with_auto_encoder	0.5978
437	lstm_encoder_decoder_outlier_removed	0.5509

best Adj R2 score models

	Model_type	Adj R2 score
177	extra_trees_regressor_detrend_rscv_model	0.4792
173	random_forest_detrend_default_model	0.4691
176	extra_trees_regressor_detrend_default_model	0.4663
186	LightGradientBoosting_detrend_rscv_model	0.4621



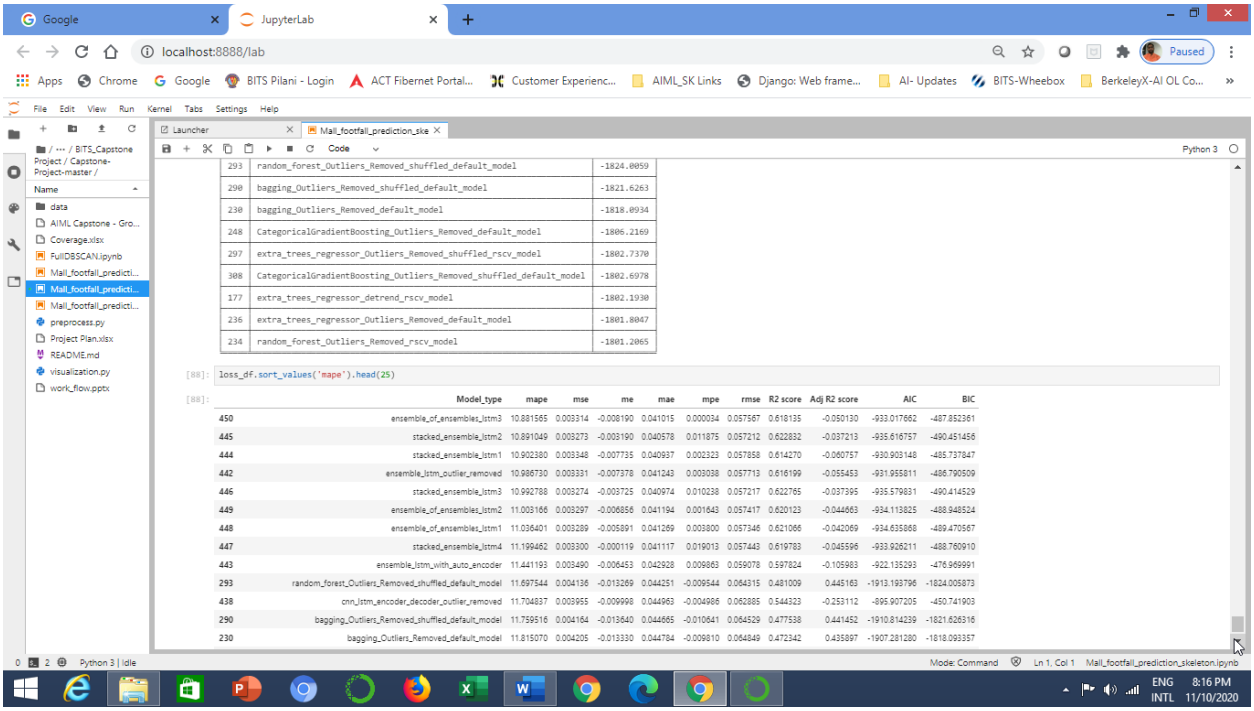
188	CategoricalGradientBoosting_detrend_default_model	0.4621
170	bagging_detrend_default_model	0.4591
189	CategoricalGradientBoosting_detrend_rscv_model	0.4504
180	gradient_boosting_regressor_detrend_rscv_model	0.4501
46	bagging_normal_shuffled_default_model	0.4489
233	random_forest_Outliers_Removed_default_model	0.4459

best AIC models

	Model_type	AIC
233	random_forest_Outliers_Removed_default_model	-1913.6467
293	random_forest_Outliers_Removed_shuffled_default_model	-1913.1938
290	bagging_Outliers_Removed_shuffled_default_model	-1910.8142
230	bagging_Outliers_Removed_default_model	-1907.2813
350	bagging_OutliersRemoved_extra_features_shuffled_default_model	-1897.1413
248	CategoricalGradientBoosting_Outliers_Removed_default_model	-1895.4048
353	random_forest_OutliersRemoved_extra_features_shuffled_default_model	-1893.3983
297	extra_trees_regressor_Outliers_Removed_shuffled_rscv_model	-1891.9249
308	CategoricalGradientBoosting_Outliers_Removed_shuffled_default_model	-1891.8857
177	extra_trees_regressor_detrend_rscv_model	-1891.3809

best BIC models

	Model_type	BIC
233	random_forest_Outliers_Removed_default_model	-1824.4587
293	random_forest_Outliers_Removed_shuffled_default_model	-1824.0059

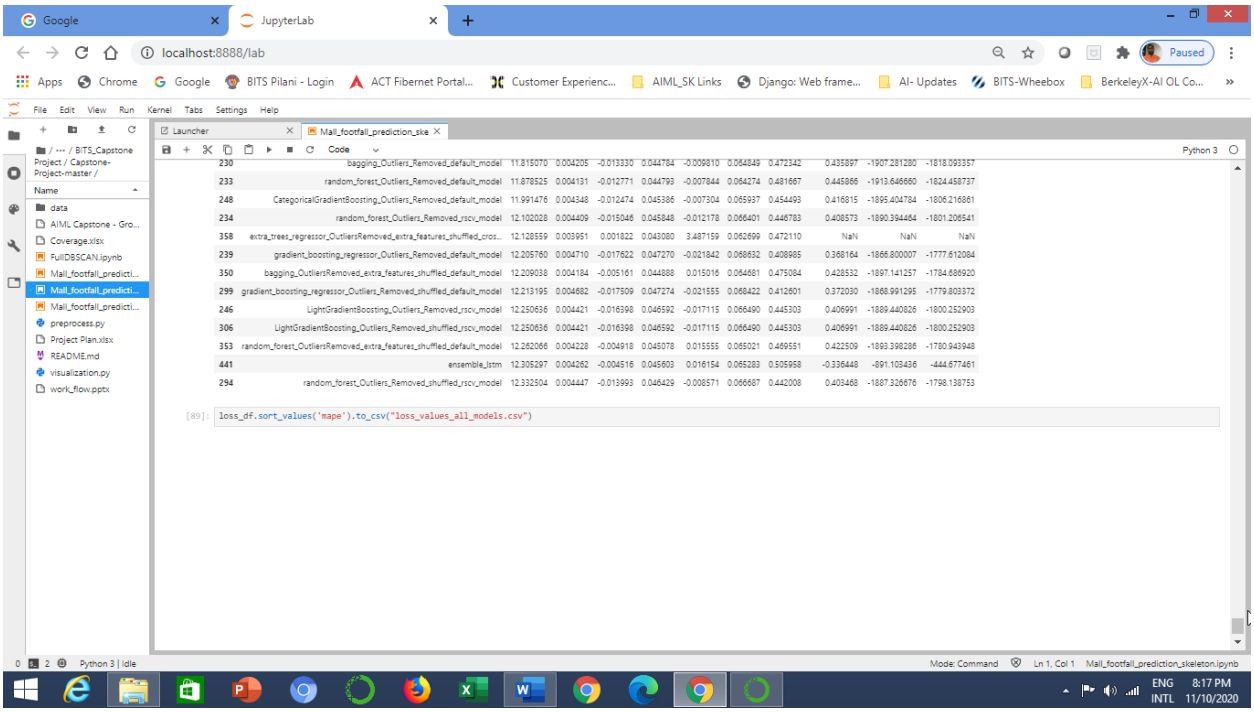


293	random_forest_Outliers_Removed_shuffled_default_model	-1824.0059
290	bagging_Outliers_Removed_shuffled_default_model	-1821.6263
230	bagging_Outliers_Removed_default_model	-1818.0934
248	CategoricalGradientBoosting_Outliers_Removed_default_model	-1806.2169
297	extra_trees_regressor_Outliers_Removed_shuffled_rscv_model	-1802.7370
308	CategoricalGradientBoosting_Outliers_Removed_shuffled_default_model	-1802.6978
177	extra_trees_regressor_detrend_rscv_model	-1802.1930
236	extra_trees_regressor_Outliers_Removed_default_model	-1801.8047
234	random_forest_Outliers_Removed_rscv_model	-1801.2065

```
[88]: loss_df.sort_values('mape').head(25)
```

[88]:

	Model_type	mape	mse	me	mae	mpe	rmse	R2 score	Adj R2 score	AIC	BIC
450	ensemble_of_ensembles_lstm3	10.881565	0.003314	-0.008190	0.041015	0.000034	0.057567	0.618135	-0.050130	-933.017662	-487.852361
445	stacked_ensemble_lstm2	10.891049	0.003273	-0.003190	0.040578	0.011875	0.057212	0.622832	-0.037213	-935.616757	-490.451456
444	stacked_ensemble_lstm1	10.902380	0.003348	-0.007735	0.040937	0.002323	0.057858	0.614270	-0.060757	-930.903148	-485.737847
442	ensemble_lstm_outlier_removed	10.986730	0.003331	-0.007378	0.041243	0.003038	0.057713	0.616199	-0.055453	-931.955811	-486.790509
446	stacked_ensemble_lstm3	10.992788	0.003274	-0.003725	0.040974	0.010238	0.057217	0.622765	-0.037395	-935.579831	-490.414529
449	ensemble_of_ensembles_lstm2	11.003166	0.003297	-0.006856	0.041194	0.001643	0.057417	0.620123	-0.044663	-934.113825	-488.948524
448	ensemble_of_ensembles_lstm1	11.036401	0.003289	-0.005891	0.041269	0.003800	0.057346	0.621066	-0.042069	-934.635868	-489.470567
447	stacked_ensemble_lstm4	11.199462	0.003300	-0.000119	0.041117	0.019013	0.057443	0.619783	-0.045596	-933.926211	-488.760910
443	ensemble_lstm_with_auto_encoder	11.441193	0.003490	-0.006453	0.042928	0.009863	0.059078	0.597824	-0.105983	-922.135293	-476.969991
293	random_forest_Outliers_Removed_shuffled_default_model	11.697544	0.004136	-0.013269	0.044251	-0.009544	0.064315	0.481009	0.445163	-1913.193796	-1824.005873
438	cnn_lstm_encoder_decoder_outlier_removed	11.704837	0.003955	-0.009998	0.044963	-0.004986	0.062885	0.544323	-0.253112	-895.907205	-450.741903
290	bagging_Outliers_Removed_shuffled_default_model	11.759516	0.004164	-0.013640	0.044665	-0.010641	0.064529	0.477538	0.441452	-1910.814239	-1821.626316
230	bagging_Outliers_Removed_default_model	11.815070	0.004205	-0.013330	0.044784	-0.009810	0.064849	0.472342	0.435897	-1907.281280	-1818.093357



230	bagging_Outliers_Removed_default_model	11.815070	0.004205	-0.013330	0.044784	-0.009810	0.064849	0.472342	0.435897	-1907.281280	-1818.093357
233	random_forest_Outliers_Removed_default_model	11.878525	0.004131	-0.012771	0.044793	-0.007844	0.064274	0.481667	0.445066	-1913.646660	-1824.458737
248	CategoricalGradientBoosting_Outliers_Removed_default_model	11.991476	0.004348	-0.012474	0.045386	-0.007304	0.065937	0.454493	0.416815	-1895.404784	-1806.216861
234	random_forest_Outliers_Removed_rscv_model	12.102028	0.004409	-0.015046	0.045848	-0.012178	0.066401	0.446783	0.408573	-1890.394464	-1801.206541
358	extra_trees_regressor_OutliersRemoved_extra_features_shuffled_cros...	12.128559	0.003951	0.001822	0.043080	3.487159	0.062699	0.472110	NaN	NaN	NaN
239	gradient_boosting_regressor_Outliers_Removed_default_model	12.205760	0.004710	-0.017622	0.047270	-0.021842	0.068632	0.408985	0.368164	-1866.800007	-1777.612084
350	bagging_OutliersRemoved_extra_features_shuffled_default_model	12.209038	0.004184	-0.005161	0.044888	0.015016	0.064681	0.475084	0.428532	-1897.141257	-1784.686920
299	gradient_boosting_regressor_Outliers_Removed_shuffled_default_model	12.213195	0.004682	-0.017509	0.047274	-0.021555	0.068422	0.412601	0.372030	-1868.991295	-1779.803372
246	LightGradientBoosting_Outliers_Removed_rscv_model	12.250636	0.004421	-0.016398	0.046592	-0.017115	0.066490	0.445303	0.406991	-1889.440826	-1800.252903
306	LightGradientBoosting_Outliers_Removed_shuffled_rscv_model	12.250636	0.004421	-0.016398	0.046592	-0.017115	0.066490	0.445303	0.406991	-1889.440826	-1800.252903
353	random_forest_OutliersRemoved_extra_features_shuffled_default_model	12.262066	0.004228	-0.004918	0.045078	0.015555	0.065021	0.459551	0.422509	-1893.398286	-1780.943948
441	ensemble_lstm	12.305297	0.004262	-0.004516	0.045603	0.016154	0.065283	0.505958	-0.336448	-891.103436	-444.677461
294	random_forest_Outliers_Removed_shuffled_rscv_model	12.332504	0.004447	-0.013993	0.046429	-0.008571	0.066687	0.442008	0.403468	-1887.326676	-1798.138753

```
[89]: loss_df.sort_values('mape').to_csv("loss_values_all_models.csv")
```

==END==