gbm B Rel. Val. RMSE: -48 Validation Rel. Val. RMSE: -48 Allowable RMSE: 131	Model Predicting Training Dataset GBM_grid_1_AutoML_20210422_113443_model_2 1400 1200 600 0 250 500 750 1000 1250 1500 1750 2000	Model Predicting Holdout Dataset GBM_grid1_AutoML_20210422_113443_model_2 1260 - 1240 - 1220 - 1200 - 1180 - 1140 - 1120 - 700 800 900 1000 1100 1200 1300	Model Predicting Training Time Series GBM_grid1_AutoML_20210422_113443_model_2 2000 1750 1500 250 0 250 500 750 1000 1250 1500 1750	1200 - 1100 - 1000 -	Residual Plot GBM_grid1_AutoML_20210422_113443_model_2 100 - 100 - 200 - 300 - 400 - 10
0.0 0.2 0.4 0.6 0.8 1.0 Ook	Model Predicting Training Dataset GBM_3_AutoML_20210422_113443 1600 1400 1000 800 0 250 500 750 1000 1250 1500 1750 2000 Model Predicting Training Dataset GBM_2_AutoML_20210422_113443	Model Predicting Holdout Dataset GBM_3_AutoML_20210422_113443 1225 1200 1175 1150 1050 700 800 900 1000 1100 1200 1300 Model Predicting Holdout Dataset GBM_2_AutoML_20210422_113443	0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series GBM_3_AutoML_20210422_113443 2000 - 1750 - 1500 - 1250 - 1000 - 750 - 250 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series GBM_2_AutoML_20210422_113443	Model Predicting Holdout Time Series GBM_3_AutoML_20210422_113443 1300 -	Residual Plot GBM_3_AutoML_20210422_113443 100 - 0 - 100 - 200 - 300 - 400 - 0 - 0 - 20 40 60 80 100 Residual Plot GBM_2_AutoML_20210422_113443
gbm B Rel. Val. RMSE: -46 Validation Rel. Val. RMSE: -45 Allowable RMSE: 131	1400 - 1200 - 1000 - 1000 - 1000 - 1250 - 1500 - 1750 - 2000 - 10	1220 - 1200 - 1180 - 1160 - 1140 - 1100 - 1080 - 700 800 900 1000 1100 1200 1300 Model Predicting Holdout Dataset GBM_1_AutoML_20210422_113443	2000 - 1750 - 1250 - 1000 - 750 - 500 - 250 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series GBM_1_AutoML_20210422_113443	1300 - 1200 - 1100 - 10	100 - 0 - 100 - 200 - 300 - 400 - 0 20 40 60 80 100 Residual Plot GBM_1_AutoML_20210422_113443
gbm B Rel. Val. RMSE: -41 Validation Rel. Val. RMSE: -41 Allowable RMSE: 131	1600 - 1400 - 1200 - 10	1275 - 1250 - 1200 - 1175 - 1150 - 1100 - 700 800 900 1000 1100 1200 1300 Model Predicting Holdout Dataset XGBoost_3_AutoML_20210422_113443	2000 - 1750 - 1250 - 1000 - 750 - 500 - 250 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series XGBoost_3_AutoML_20210422_113443	1300 - 1200 - 1100 - 10	100 - 0 - 100 - 200 - 300 - 400 - 500 - 0 - 20
xgboost B Rel. Val. RMSE: -40 Validation Rel. Val. RMSE: -40 Allowable RMSE: 131	1500 - 1250 - 1000 - 750 - 250 - 0 250 500 750 1000 1250 1500 1750 2000 Model Predicting Training Dataset GBM_4_AutoML_20210422_113443	1250 - 1200 - 1150 - 1050 - 700 800 900 1000 1100 1200 1300 Model Predicting Holdout Dataset GBM_4_AutoML_20210422_113443	1500 - 1000 - 500 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series GBM_4_AutoML_20210422_113443	1300 - 1200 - 1100 - 1000 - 900 - 800 - 700 - 0	100 - 0 - 10
gbm B Rel. Val. RMSE: -39 Validation Rel. Val. RMSE: -39 Allowable RMSE: 131	1400 - 1200 - 1000 - 1000 - 1250 - 1500 - 1750 - 2000 - 16	1200 - 1180 - 1160 - 1140 - 1120 - 1100 - 1080 - 700 800 900 1000 1100 1200 1300 Model Predicting Holdout Dataset GBM_5_AutoML_20210422_113443	1750 - 1500 - 1000 - 750 - 500 - 250 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series GBM_5_AutoML_20210422_113443	1200 - 1100	100 - 100 - 200 - 300 - 400 - 500 - 0 20 40 60 80 100 Residual Plot GBM_5_AutoML_20210422_113443
gbm B Rel. Val. RMSE: -36 Validation Rel. Val. RMSE: -35 Allowable RMSE: 131	1200 - 1000 - 800 - 400 - 0 250 500 750 1000 1250 1500 1750 2000 Model Predicting Training Dataset GLM_1_AutoML_20210422_113443	1250 - 1200 - 1150 - 1100 - 1000 - 700 800 900 1000 1100 1200 1300 Model Predicting Holdout Dataset GLM_1_AutoML_20210422_113443	1750 - 1250 - 1000 - 750 - 250 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series GLM_1_AutoML_20210422_113443	1200 - 1100 - 10	100 -
glm B Rel. Val. RMSE: -20 Validation Rel. Val. RMSE: -20 Allowable RMSE: 131	2000 - 1500 - 1000 - 500 - 500 - 750 1000 1250 1500 1750 2000 Model Predicting Training Dataset DeepLearning_grid_1_AutoML_20210422_113443_model_1	1200 - 1100 - 1000 - 1000 - 1000 - 1000 Model Predicting Holdout Dataset DeepLearning_grid1_AutoML_20210422_113443_model_1	2000 - 1500 - 1000 - 5005001000 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series DeepLearning_grid_1_AutoML_20210422_113443_model_1	1200 - 1100 - 1000 - 900 - 800 - 700 - 0	100 - 0 - 100 - 200 - 300 - 400 - 0 - 20
deeplearning B Rel. Val. RMSE: -18 Validation Rel. Val. RMSE: -18 Allowable RMSE: 131	100010002000200020002000 Model Predicting Training Dataset StackedEnsemble_AllModels_AutoML_20210422_113443	1200 - 1100 - 1000 - 1000 - 1000 1000 1100 1200 1300 1200 Model Predicting Holdout Dataset StackedEnsemble_AllModels_AutoML_20210422_113443	1000 - 1000 - 1000 - 1000 1250 1500 1750 Model Predicting Training Time Series StackedEnsemble_AllModels_AutoML_20210422_113443	1200 - 1100 - 1000 - 900 - 800 - 700 - Model Predicting Holdout Time Series StackedEnsemble_AllModels_AutoML_20210422_113443	200 - 100 - 200 - 300 - 400 - 0 20 40 60 80 100 Residual Plot StackedEnsemble_AllModels_AutoML_20210422_113443
stackedensemble B Rel. Val. RMSE: -14 Validation Rel. Val. RMSE: -14 Allowable RMSE: 131 0.2 0.0 0.0 0.0 0.2 0.4 0.6 0.8 1.0	1500 - 1250 - 1000 - 750 - 1000 1250 1500 1750 2000 Model Predicting Training Dataset StackedEnsemble_BestOfFamily_AutoML_20210422_113443	1100 - 1000 - 800 - 700 800 900 1000 1100 1200 1300 Model Predicting Holdout Dataset StackedEnsemble_BestOfFamily_AutoML_20210422_113443	1500 - 1000 - 500 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series StackedEnsemble_BestOfFamily_AutoML_20210422_113443	1200 - 1100 - 1000 - 900 - 800 - 700 - 0 20 40 60 80 100 Model Predicting Holdout Time Series StackedEnsemble_BestOfFamily_AutoML_20210422_113443	200 -
stackedensemble B Rel. Val. RMSE: -14 Validation Rel. Val. RMSE: -14 Allowable RMSE: 131	1250 - 1000 - 750 - 1000 1250 1500 1750 2000 Model Predicting Training Dataset GBM_grid_1_AutoML_20210422_113443_model_1 2000 - 1750 - 1500 -	1100 - 1000 - 1000 - 1000 1100 1200 1300 Model Predicting Holdout Dataset GBM_grid_1_AutoML_20210422_113443_model_1	1500 - 1000 - 500 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series GBM_grid_1_AutoML_20210422_113443_model_1 2000 - 1500 -	1100 - 1000 - 900 - 800 - 700 - 0 20 40 60 80 100 Model Predicting Holdout Time Series GBM_grid_1_AutoML_20210422_113443_model_1 1300 - 1200 -	200 - 200 - 400 - 0 20 40 60 80 100 Residual Plot GBM_grid_1_AutoML_20210422_113443_model_1
gbm B Rel. Val. RMSE: -13 Validation Rel. Val. RMSE: -12 Allowable RMSE: 131 0.2 0.0 0.0 0.2 0.4 0.6 0.8 1.0	1250 - 1000 - 750 - 500 - 250 - 0 - 0 250 500 750 1000 1250 1500 1750 2000 Model Predicting Training Dataset XGBoost_grid_1_AutoML_20210422_113443_model_1 1750 - 1500 -	1100 - 1000 - 900 - 800 - 700 800 900 1000 1100 1200 1300 Model Predicting Holdout Dataset XGBoost_grid_1_AutoML_20210422_113443_model_1 1300 - 1250 - 1200 -	1000 - 500 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series XGBoost_grid_1_AutoML_20210422_113443_model_1 2000 - 1500 -	1100 - 1000 - 900 - 800 - 700 - 0	200 - 200 - 400 - 0 20 40 60 80 100 Residual Plot XGBoost_grid_1_AutoML_20210422_113443_model_1 200 - 100 -
xgboost B Rel. Val. RMSE: -7 Validation Rel. Val. RMSE: -6 Allowable RMSE: 131 0.2 0.0 0.0 0.0 0.2 0.4 0.6 0.8 1.0 yaboost B	1250 - 1000 - 750 - 500 - 250 - 0 250 500 750 1000 1250 1500 1750 2000 Model Predicting Training Dataset XGBoost_2_AutoML_20210422_113443	1150 - 1100 - 1050 - 1000 - 950 - 700 800 900 1000 1100 1200 1300 Model Predicting Holdout Dataset	1000 - 500 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series XGBoost_2_AutoML_20210422_113443	1100 - 1000	0 - 100 - 200 - 300 - 400 - 0 20 40 60 80 100 Residual Plot XGBoost_2_AutoML_20210422_113443
xgboost B Rel. Val. RMSE: -4 Validation Rel. Val. RMSE: -4 Allowable RMSE: 131 1.0 xgboost B Rel. Val. RMSE: -4 Allowable RMSE: 131 xgboost B	1000 - 750 - 500 - 750 - 1000 - 1250 - 1500 - 1750 - 2000 Model Predicting Training Dataset XGBoost_1_AutoML_20210422_113443	1100 - 1000 - 1000 - 1000 800 900 1000 1100 1200 1300 Model Predicting Holdout Dataset XGBoost_1_AutoML_20210422_113443	1000 - 500 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series XGBoost_1_AutoML_20210422_113443	1100 - 1000 - 900 - 800 - 700 - 0 20 40 60 80 100 Model Predicting Holdout Time Series XGBoost_1_AutoML_20210422_113443	100 - 0 - 100 - 200 - 300 - 400 - 0 20 40 60 80 100 Residual Plot XGBoost_1_AutoML_20210422_113443
Rel. Val. RMSE: 14 Validation Rel. Val. RMSE: 14 Allowable RMSE: 131 O.2 O.0	1000 - 750 - 500 - 250 - 500 - 750 - 1000 - 1250 - 1500 - 1750 - 1500 - 1250 -	1000 - 900 - 800 - 700 800 900 1000 1100 1200 1300 Model Predicting Holdout Dataset DRF_1_AutoML_20210422_113443	1000 - 500 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series DRF_1_AutoML_20210422_113443	1100 - 1000 - 900 - 800 - 700 - 0 20 40 60 80 100 Model Predicting Holdout Time Series DRF_1_AutoML_20210422_113443	0 - 200 - 400 - 60 80 100 Residual Plot DRF_1_AutoML_20210422_113443
Rel. Val. RMSE: 43 Validation Rel. Val. RMSE: 43 Allowable RMSE: 131 O.2- O.0- O.0- O.0- O.0- O.0- O.0- O.0- O.0	1000 - 750 - 500 - 250 - 500 - 750 - 1000 - 1250 - 1500 - 1750 - 2000 - Model Predicting Training Dataset DeepLearning_1_AutoML_20210422_113443	1200 - 1000 - 800 - 700 800 900 1000 1100 1200 1300 Model Predicting Holdout Dataset DeepLearning_1_AutoML_20210422_113443 1400 - 1300 - 1200 -	1250 - 1000 - 750 - 500 - 250 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series DeepLearning_1_AutoML_20210422_113443	1200 - 10	0 - 200 - 400 - 600 - 80 100 Residual Plot DeepLearning_1_AutoML_20210422_113443
Rel. Val. RMSE: 81 Validation Rel. Val. RMSE: 81 Allowable RMSE: 131 O.2 O.0	500 - 0 - 250 500 750 1000 1250 1500 1750 2000 Model Predicting Training Dataset GBM_2_AutoML_20210422_113338	1100 - 1000 - 900 - 900 - 1000 1100 1200 1300 Model Predicting Holdout Dataset GBM_2_AutoML_20210422_113338	1000 - 500 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series GBM_2_AutoML_20210422_113338	1100 - 1000 - 900 - 800 - 700 - 0 20 40 60 80 100 Model Predicting Holdout Time Series GBM_2_AutoML_20210422_113338	0 - 200 - 400 - 600 - 600 - 80 100 Residual Plot GBM_2_AutoML_20210422_113338
Validation Rel. Val. RMSE: 91 Allowable RMSE: 160 O.2- O.0- O.0- O.0- O.0- O.0- O.0- O.0- O.0	1300 - 1200 - 1100 - 1000 - 900 - 0 500 1000 1500 2000 Model Predicting Training Dataset GBM_4_AutoML_20210422_113338	1450 - 1400 - 1350 - 1300 - 1000	1000 - 500 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series GBM_4_AutoML_20210422_113338	1400 - 1200 1000 1000 1000 1000 - 1	0 - 200 - 400 - 60 80 100 Residual Plot GBM_4_AutoML_20210422_113338
Validation Rel. Val. RMSE: 91 Allowable RMSE: 160 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1200 - 1000 - 800	1400 - 1350 - 1300 - 1000	1000 - 500 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series XGBoost_grid_1_AutoML_20210422_113338_model_1	1400 - 1200 - 1000 - 1000 Model Predicting Holdout Time Series XGBoost_grid1_AutoML_20210422_113338_model_1 2000 - 16	0
Validation Rel. Val. RMSE: 92 Allowable RMSE: 160 0.2 0.0 0.0 0.1 0.8 drf B Rel. Val. RMSE: 100	1000 - 500 1000 1500 2000 Model Predicting Training Dataset XRT_1_AutoML_20210422_113443	1200 - 1000	1000 - 500 - 500 - 750 1000 1250 1500 1750 Model Predicting Training Time Series XRT_1_AutoML_20210422_113443 2000 - 1750 - 1500 - 1250 - 1000 - 100	1200 - 1000 - 800 - 0 20 40 60 80 100 Model Predicting Holdout Time Series XRT_1_AutoML_20210422_113443	400 - 200 - 0 - 200 - 0 - 20
Validation Rel. Val. RMSE: 100 Allowable RMSE: 131 O.2- O.0- O.0- O.0- O.0- O.0- O.0- O.0- O.0	750 - 250 -	600 - 400 - 700 800 900 1000 1100 1200 1300 Model Predicting Holdout Dataset StackedEnsemble_BestOfFamily_AutoML_20210422_113338	750 - 250 - 250 - 0 - 250 - 500 - 750 - 1000 - 1250 - 1500 - 1750 - Model Predicting Training Time Series StackedEnsemble_BestOfFamily_AutoML_20210422_113338	600 - 400	200 - 400 - 600 80 100 Residual Plot StackedEnsemble_BestOfFamily_AutoML_20210422_113338 800 - 600 - 400 - 200
Allowable RMSE: 160 OLD OLD OLD OLD OLD OLD OLD OL	500 - 0 - 0 - 0 - 1500 2000 Model Predicting Training Dataset StackedEnsemble_AllModels_AutoML_20210422_113338 2000 - 1500 - 1000 -	1200 - 1000	500 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series StackedEnsemble_AllModels_AutoML_20210422_113338 2000 - 1500 - 1000 -	1200 - 1000 - 1000 - 1000 - Model Predicting Holdout Time Series StackedEnsemble_AllModels_AutoML_20210422_113338 2000 - 1800 - 1400 -	0 - 200 - 400 - 60 80 100 Residual Plot StackedEnsemble_AllModels_AutoML_20210422_113338 800 - 400 - 200 - 200 - 400 - 200 -
Allowable RMSE: 160 O.2- O.0- O.0- O.0- O.0- O.0- O.0- O.0- O.0	500 - 0 500 1000 1500 2000 Model Predicting Training Dataset GBM_3_AutoML_20210422_113338	1200 - 1000	500 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series GBM_3_AutoML_20210422_113338	1200 - 1000 - 0 20 40 60 80 100 Model Predicting Holdout Time Series GBM_3_AutoML_20210422_113338 2000 - 1800 - 1600 - 1400 -	0 - 200 - 400 60 80 100 Residual Plot GBM_3_AutoML_20210422_113338 600 - 400 - 200 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0
gbm A O.6 Rel. Val. RMSE: 106 Validation Rel. Val. RMSE: 107 Allowable RMSE: 160	1000 - 800	1350 - 1300 - 1000 1200 1400 1600 1800 2000 Model Predicting Holdout Dataset GBM_grid_1_AutoML_20210422_113338_model_1 1800 - 1700 - 1600 - 1500 - 1400 - 1300 - 1200 -	500 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series GBM_grid_1_AutoML_20210422_113338_model_1 2000 - 1500 - 1000 -	1800 - 1600 - 1400 -	200 - 400 - 0 20 40 60 80 100 Residual Plot GBM_grid_1_AutoML_20210422_113338_model_1 600 - 400 - 200 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0
gbm A Rel. Val. RMSE: 107 Validation Rel. Val. RMSE: 107 Allowable RMSE: 160	0 - 0 - 1000 1500 2000 Model Predicting Training Dataset GBM_5_AutoML_20210422_113338	1200 - 1000 - 1000 1200 1400 1600 1800 2000 Model Predicting Holdout Dataset GBM_5_AutoML_20210422_113338 1600 - 1500 - 1300 -	500 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series GBM_5_AutoML_20210422_113338	1200 - 1000 -	200 - 400 - 0 20 40 60 80 100 Residual Plot GBM_5_AutoML_20210422_113338
0.0 0.0 0.2 0.4 0.6 0.8 1.0 1.0	800 - 600 - 1000 1500 2000 Model Predicting Training Dataset GBM_1_AutoML_20210422_113338	1200 - 1000	0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series GBM_1_AutoML_20210422_113338 2000 - 1500 - 1000 - 500 -	1000 -	200 - 400 - 60 80 100 Residual Plot GBM_1_AutoML_20210422_113338 600 - 400 - 200 - 400
gbm A Rel. Val. RMSE: 126 Validation Rel. Val. RMSE: 127 Allowable RMSE: 160	1100 -	1300 - 1000 1200 1400 1600 1800 2000 Model Predicting Holdout Dataset GBM_grid_1_AutoML_20210422_113338_model_2 1450 - 1350 - 1350 - 1250 - 1	0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series GBM_grid_1_AutoML_20210422_113338_model_2 2000 - 1500 - 1500 - 500 -	1000 - 0 20 40 60 80 100 Model Predicting Holdout Time Series GBM_grid_1_AutoML_20210422_113338_model_2 2000 - 1800 - 1400 - 12	400 - 0 20 40 60 80 100 Residual Plot GBM_grid_1_AutoML_20210422_113338_model_2 400 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0
xgboost A Rel. Val. RMSE: 179 Validation Rel. Val. RMSE: 180 Allowable RMSE: 160	1150 - 0 500 1000 1500 2000 Model Predicting Training Dataset XGBoost_3_AutoML_20210422_113338 1750 - 1500 - 1500 - 1500 2000 1500 - 1500 - 1500 2000 1500 - 1500 2000 1500	1000 1200 1400 1600 1800 2000 Model Predicting Holdout Dataset XGBoost_3_AutoML_20210422_113338 1600 -	250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series XGBoost_3_AutoML_20210422_113338 2000 - 1500 - 1500 -	1000 - 0 20 40 60 80 100 Model Predicting Holdout Time Series XGBoost_3_AutoML_20210422_113338	400 - 0 20 40 60 80 100 Residual Plot XGBoost_3_AutoML_20210422_113338 800 - 600 - 400 - 200 - 0 - 200 - 0 - 200 - 0 - 200
0.0 0.0 0.2 0.4 0.6 0.8 1.0 1.0 0.8 0.6 Rel. Val. RMSE: 195 Validation Rel. Val. RMSE: 196 Allowable RMSE: 160	0	1000	0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series XRT_1_AutoML_20210422_113338 2000 - 1500 - 500 -	1000 - 0 20 40 60 80 100 Model Predicting Holdout Time Series XRT_1_AutoML_20210422_113338 2000 - 1750 - 1500 - 1250 - 1000 - 750 - 500 - 250	200