gbm B Rel. Val. RMSE: -53 Validation Rel. Val. RMSE: -52 Allowable RMSE: 131	Model Predicting Training Dataset GBM_grid1_AutoML_20210422_111449_model_2 1250 - 1200 - 1175 - 1150 - 1125 - 1100 - 1075 - 1050 - 1	Model Predicting Holdout Dataset GBM_grid1_AutoML_20210422_111449_model_2	Model Predicting Training Time Series GBM_grid1_AutoML_20210422_111449_model_2 2000 1750 1250 250 0 250 500 750 1000 1250 1500 1750	Model Predicting Holdout Time Series GBM_grid_1_AutoML_20210422_111449_model_2 1300 1200 1000 900 800 700 20 40 60 80 100	Residual Plot GBM_grid1_AutoML_20210422_111449_model_2 100 -
gbm B Rel. Val. RMSE: -49 Validation Rel. Val. RMSE: -48 Allowable RMSE: 131	Model Predicting Training Dataset GBM_2_AutoML_20210422_111449 1250 - 1200 - 1150 - 1050 - 1	Model Predicting Holdout Dataset GBM_2_AutoML_20210422_111449 00 800 900 1000 1100 1200 1300 Model Predicting Holdout Dataset XGBoost_3_AutoML_20210422_111449	Model Predicting Training Time Series GBM_2_AutoML_20210422_111449 2000 - 1750 - 1500 - 1250 - 1500 - 1750 - 1000 - 1250 - 1500 - 1750	Model Predicting Holdout Time Series GBM_2_AutoML_20210422_111449 1300 1200 1100 1000 900 0 20 40 60 80 100 Model Predicting Holdout Time Series XGBoost_3_AutoML_20210422_111449	Residual Plot GBM_2_AutoML_20210422_111449 200 100 - -100 - -200 - -300 - 0 20 40 60 80 100 Residual Plot XGBoost_3_AutoML_20210422_111449
xgboost B Rel. Val. RMSE: -46 Validation Rel. Val. RMSE: -46 Allowable RMSE: 131	1300 - 1250 - 1200 - 1150 - 1100 - 1050 - 10	00 800 900 1000 1100 1200 1300 Model Predicting Holdout Dataset GBM_3_AutoML_20210422_111449	2000 - 1500 - 1500 - 1500 - 1500 - 1750 Model Predicting Training Time Series GBM_3_AutoML_20210422_111449	1300 - 1200 - 1100 - 10	100 - 0100200300400 - 0 20 40 60 80 100 Residual Plot GBM_3_AutoML_20210422_111449
gbm B Rel. Val. RMSE: -45 Validation Rel. Val. RMSE: -44 Allowable RMSE: 131	1200 - 1175 - 1150 - 1125 - 1100 - 1075 - 1050 - Model Predicting Training Dataset GBM_4_AutoML_20210422_111449 1240 - 1220 -	00 800 900 1000 1100 1200 1300 Model Predicting Holdout Dataset GBM_4_AutoML_20210422_111449	1750 - 1500 - 1000 - 750 - 500 - 250 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series GBM_4_AutoML_20210422_111449	1200 - 1100 - 10	100 -
gbm B Rel. Val. RMSE: -42 Validation Rel. Val. RMSE: -41 Allowable RMSE: 131	1200 - 1180 - 1160 - 1140 - 1120 - 1100 - 1100 - 1100 - 1080 - 10	00 800 900 1000 1100 1200 1300 Model Predicting Holdout Dataset GBM_1_AutoML_20210422_111449	1500 - 1250 - 1000 - 750 - 250 - 0 - 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series GBM_1_AutoML_20210422_111449	1200	0100200300400 - 0 - 20
gbm B Rel. Val. RMSE: -41 Validation Rel. Val. RMSE: -41 Allowable RMSE: 131 gbm B 1200 1000 1000 1000 1000 1000 1000 100	1225 - 1200 - 1175 - 1150 - 1125 - 1100 - 1125 - 1100 - 1250 Son 750 1000 1250 1500 1750 2000 Model Predicting Training Dataset GBM_5_AutoML_20210422_111449 1250 -	00 800 900 1000 1100 1200 1300 Model Predicting Holdout Dataset GBM_5_AutoML_20210422_111449	1500 - 1000 - 750 - 500 - 250 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series GBM_5_AutoML_20210422_111449	1100 - 1000 - 900 - 800 - 700 - 0 20 40 60 80 100 Model Predicting Holdout Time Series GBM_5_AutoML_20210422_111449	-100200300400500 - 0
Rel. Val. RMSE: -35 Validation Rel. Val. RMSE: -34 Allowable RMSE: 131 Allowable RMSE: 131 Stackedensemble B Rel. Val. RMSE: -11	1150 - 1100 - 1050 - 1100 -	00 800 900 1000 1100 1200 1300 Model Predicting Holdout Dataset StackedEnsemble_AllModels_AutoML_20210422_111449	1250 - 1000 - 750 - 500 - 250 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series StackedEnsemble_AllModels_AutoML_20210422_111449	1000 - 900 - 800 - 700 - 0 20 40 60 80 100 Model Predicting Holdout Time Series StackedEnsemble_AllModels_AutoML_20210422_111449	-100200300400500 - 0 20 40 60 80 100 Residual Plot StackedEnsemble_AllModels_AutoML_20210422_111449
Validation Rel. Val. RMSE: -10 Allowable RMSE: 131 250 250 250 250 250 250 250 250 250 25	1000 - 900 - 800 - 800 - Model Predicting Training Dataset StackedEnsemble_BestOfFamily_AutoML_20210422_111449 1200 -	Model Predicting Holdout Dataset StackedEnsemble_BestOfFamily_AutoML_20210422_111449	1000 - 500 - 500 - 750 1000 1250 1500 1750 Model Predicting Training Time Series StackedEnsemble_BestOfFamily_AutoML_20210422_111449 2000 - 1500 - 1000 -	1000 - 900 - 800 - 700 - 0 20 40 60 80 100 Model Predicting Holdout Time Series StackedEnsemble_BestOfFamily_AutoML_20210422_111449	0 - 200 - 400 - 60 80 100 Residual Plot StackedEnsemble_BestOfFamily_AutoML_20210422_111449 400 - 200 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0
xgboost B Rel. Val. RMSE: -7 Validation Rel. Val. RMSE: -7	900 - 800 - 800 - Model Predicting Training Dataset XGBoost_grid_1_AutoML_20210422_111449_model_1 1300 - 1250 - 1100 -	Model Predicting Holdout Dataset XGBoost_grid1_AutoML_20210422_111449_model_1	500 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series XGBoost_grid_1_AutoML_20210422_111449_model_1 2000 - 1500 -	900 - 800 - 700 - 0 20 40 60 80 100 Model Predicting Holdout Time Series XGBoost_grid_1_AutoML_20210422_111449_model_1 1300 - 1200 - 1100 - 1000 - 1	-200400 - 0 20 40 60 80 100 Residual Plot XGBoost_grid_1_AutoML_20210422_111449_model_1 200 - 100 - 0100 -
Allowable RMSE: 131 Allowable RMSE: 131 Soot of the state of the sta	1050 - 1000 - 950 - 0 250 500 750 1000 1250 1500 1750 2000 Model Predicting Training Dataset GBM_grid_1_AutoML_20210422_111449_model_1 1200 - 1100 - 900 -	Model Predicting Holdout Dataset GBM_grid_1_AutoML_20210422_111449_model_1	500 - 0	900 - 800 - 700 - 0 20 40 60 80 100 Model Predicting Holdout Time Series GBM_grid_1_AutoML_20210422_111449_model_1 1300 - 1200 - 1100 - 1000 - 900 -	-200300400 - 0
deeplearning B Rel. Val. RMSE: -6 Validation Rel. Val. RMSE: -6 Allowable RMSE: 131	800 - 700 -	Model Predicting Holdout Dataset DeepLearning_grid_1_AutoML_20210422_111449_model_1	250 - 250 - 500 - 750 1000 1250 1500 1750 Model Predicting Training Time Series DeepLearning_grid_1_AutoML_20210422_111449_model_1 2000 - 1500 - 0 500 1000 - 100	800 - 700 - 0 20 40 60 80 100 Model Predicting Holdout Time Series DeepLearning_grid_1_AutoML_20210422_111449_model_1 1300 - 1200 - 1100 - 1000 - 900 - 800	-2004
xgboost B Rel. Val. RMSE: -6 Validation Rel. Val. RMSE: -6 Allowable RMSE: 131	250 500 750 1000 1250 1500 1750 2000 70 Model Predicting Training Dataset XGBoost_2_AutoML_20210422_111449 1300 - 1100 - 900 -	Model Predicting Holdout Dataset XGBoost_2_AutoML_20210422_111449	-1500 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series XGBoost_2_AutoML_20210422_111449	700 - 0 20 40 60 80 100 Model Predicting Holdout Time Series XGBoost_2_AutoML_20210422_111449	-300400 - 0 20 40 60 80 100 Residual Plot XGBoost_2_AutoML_20210422_111449 300 - 200 - 100200300400 -
glm B Rel. Val. RMSE: -3 Validation Rel. Val. RMSE: -3 Allowable RMSE: 131	250 500 750 1000 1250 1500 1750 2000 70 Model Predicting Training Dataset GLM_1_AutoML_20210422_111449	Model Predicting Holdout Dataset GLM_1_AutoML_20210422_111449 800 900 1000 1100 1200 1300 Model Predicting Holdout Dataset	0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series GLM_1_AutoML_20210422_111449 3000 - 2500 - 2000 - 1500 - 1500 - 1000	Model Predicting Holdout Time Series GLM_1_AutoML_20210422_111449 1400 1300 1100 1000 900 800 0 20 40 60 80 100 1100 1100 1000 900 800 700 0 20 40 60 80 100 Model Predicting Holdout Time Series	0 20 40 60 80 100 Residual Plot GLM_1_AutoML_20210422_111449 300 -100 -200 -300 -400 -500 0 20 40 60 80 100 Residual Plot
drf B Rel. Val. RMSE: 0 Validation Rel. Val. RMSE: 0 Allowable RMSE: 131	Model Predicting Training Dataset XRT_1_AutoML_20210422_111449 1300 - 1200 - 1000 - 1	Model Predicting Holdout Dataset XRT_1_AutoML_20210422_111449 00 800 900 1000 1100 1200 1300 Model Predicting Holdout Dataset XGBoost_1_AutoML_20210422_111449	Model Predicting Training Time Series XRT_1_AutoML_20210422_111449 2000 1750 1500 1250 0 250 Model Predicting Training Time Series XRT_1_AutoML_20210422_111449	Model Predicting Holdout Time Series XRT_1_AutoML_20210422_111449 1300 -	Residual Plot XRT_1_AutoML_20210422_111449 300 -200 -100 -200 -300 -400 -500 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
xgboost B Rel. Val. RMSE: 21 Validation Rel. Val. RMSE: 21 Allowable RMSE: 131 250 250 0 0 1750 1750 1750 1750 1750 1750 175	1200 - 1100 - 1100 - 10	00 800 900 1000 1100 1200 1300 Model Predicting Holdout Dataset DeepLearning_1_AutoML_20210422_111449	2000 - 1500 - 1000 - 500 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series DeepLearning_1_AutoML_20210422_111449	1300 - 1200 - 1100 - 10	400 - 200 200 200 200 200 200 200 - Residual Plot DeepLearning_1_AutoML_20210422_111449
deeplearning B Rel. Val. RMSE: 36 Validation Rel. Val. RMSE: 37 Allowable RMSE: 131	1200 - 1100 - 1000 - 1000 - 900 - 800 - 700 - Model Predicting Training Dataset GBM_2_AutoML_20210422_111253	00 800 900 1000 1100 1200 1300 Model Predicting Holdout Dataset GBM_2_AutoML_20210422_111253	1500 - 1000 - 500 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series GBM_2_AutoML_20210422_111253	1200 - 1100 - 10	400 - 200 - -200 - -400 - 0 20 40 60 80 100 Residual Plot GBM_2_AutoML_20210422_111253
gbm A Rel. Val. RMSE: 82 Validation Rel. Val. RMSE: 83 Allowable RMSE: 160	1500 - 1400 - 1300 - 1200 - 1200 - 1000 1500 2000 Model Predicting Training Dataset GBM_4_AutoML_20210422_111253 1600 - 1550 -	1000 1200 1400 1600 1800 2000 Model Predicting Holdout Dataset GBM_4_AutoML_20210422_111253	1500 - 1000 - 500 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series GBM_4_AutoML_20210422_111253	1800 - 1600 - 1400 - 1200 - 10	400 - 200200400
xgboost A	1500 - 1450 - 1400 - 1350 - 1300 - 1300 - 1300 - 1300 - 1300 - 1300 - 1300 - 1300 - 1300 - 1300 - 1300 - 1300 - 1300 - 1300 - 1300 - 1300 - 1300 -	1000 1200 1400 1600 1800 2000 Model Predicting Holdout Dataset XGBoost_grid_1_AutoML_20210422_111253_model_1	1500 - 1000 - 500 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series XGBoost_grid1_AutoML_20210422_111253_model_1 2000 - 1500 -	1600 - 1400 - 1200 - 10	200 - 0 - 200 - 40 60 80 100 Residual Plot XGBoost_grid_1_AutoML_20210422_111253_model_1 1000 - 800 - 600 -
Rel. Val. RMSE: 93 Validation Rel. Val. RMSE: 93 Allowable RMSE: 160 22 Allowable RMSE: 160 1800 1600 1600 1400 1200	1400 - 1200 - 1000 - 800 - Model Predicting Training Dataset GBM_3_AutoML_20210422_111253 1600 - 1500 -	1000 1200 1400 1600 1800 2000 Model Predicting Holdout Dataset GBM_3_AutoML_20210422_111253	1000 - 500 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series GBM_3_AutoML_20210422_111253	1400 - 1200 - 10	400 - 200 - 0 - -200 - 0 20 40 60 80 100 Residual Plot GBM_3_AutoML_20210422_111253
Validation Rel. Val. RMSE: 94 Allowable RMSE: 160 2000000000	1400 - 1300 - 1300 - 1500 1000 1500 2000 Model Predicting Training Dataset GBM_5_AutoML_20210422_111253 1600 - 1500 -	1000 1200 1400 1600 1800 2000 Model Predicting Holdout Dataset GBM_5_AutoML_20210422_111253	1000 - 500 - 500 750 1000 1250 1500 1750 Model Predicting Training Time Series GBM_5_AutoML_20210422_111253	1400 - 1200 - 10	0 - 200400 - 0 20 40 60 80 100 Residual Plot GBM_5_AutoML_20210422_111253
Allowable RMSE: 160 Allowable RMSE: 160 BOO ADD BOO BOO BOO BOO BOO BOO	1300 - 1200 - 1200 - 1200 - 1200 - 1200 - 1500	1000 1200 1400 1600 1800 2000 Model Predicting Holdout Dataset GBM_1_AutoML_20210422_111253	500 - 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series GBM_1_AutoML_20210422_111253	1200 - 10	-2004004000 20 40 60 80 100 Residual Plot GBM_1_AutoML_20210422_111253 600 - 400 - 200 - 0200 -
stackedensemble A Rel. Val. RMSE: 103 Validation Rel. Val. RMSE: 104 Allowable RMSE: 160	1300 - 1250 - 12	1000 1200 1400 1600 1800 2000 Model Predicting Holdout Dataset StackedEnsemble_AllModels_AutoML_20210422_111253	0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series StackedEnsemble_AllModels_AutoML_20210422_111253 2000 - 1500 - 5	1000 - 0 20 40 60 80 100 Model Predicting Holdout Time Series StackedEnsemble_AllModels_AutoML_20210422_111253 2000 - 1800 - 1400 - 1200 - 1	-400600 - 0 20 40 60 80 100 Residual Plot StackedEnsemble_AllModels_AutoML_20210422_111253
stackedensemble A Rel. Val. RMSE: 105 Validation Rel. Val. RMSE: 106 Allowable RMSE: 160	1000 - 1000 -	1000 1200 1400 1600 1800 2000 Model Predicting Holdout Dataset StackedEnsemble_BestOfFamily_AutoML_20210422_111253	0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series StackedEnsemble_BestOfFamily_AutoML_20210422_111253 2000 - 1500 - 1000 1250 1500 1750	1000 - 0 20 40 60 80 100 Model Predicting Holdout Time Series StackedEnsemble_BestOfFamily_AutoML_20210422_111253 2000 - 1800 - 1400 - 1200 - 1000	-400
gbm A Rel. Val. RMSE: 113 Validation Rel. Val. RMSE: 160 Allowable RMSE: 160	Model Predicting Training Dataset GBM_grid_1_AutoML_20210422_111253_model_1 1800 - 1700 - 1600 - 1500 - 1400 - 1300 - 10	1000 1200 1400 1600 1800 2000 Model Predicting Holdout Dataset GBM_grid_1_AutoML_20210422_111253_model_1 1000 1200 1400 1600 1800 2000 Model Predicting Holdout Dataset DRF_1_AutoML_20210422_111449	0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series GBM_grid_1_AutoML_20210422_111253_model_1 2000 -	0 20 40 60 80 100 Model Predicting Holdout Time Series GBM_grid_1_AutoML_20210422_111253_model_1 2000 - 1800 - 1600 - 1000 - 1000 - 0 20 40 60 80 100 Model Predicting Holdout Time Series DRF_1_AutoML_20210422_111449	-400
drf B Rel. Val. RMSE: 113 Validation Rel. Val. RMSE: 114 Allowable RMSE: 131	Model Predicting Training Dataset DRF_1_AutoML_20210422_111449 1600 - 1200 - 1000 - 1000 - 800 - 400 - Model Predicting Training Dataset GBM_grid_1_AutoML_20210422_111253_model_2	Model Predicting Holdout Dataset DRF_1_AutoML_20210422_111449 00 800 900 1000 1100 1200 1300 Model Predicting Holdout Dataset GBM_grid_1_AutoML_20210422_111253_model_2	DRF_1_AutoML_20210422_111449 2000 1750 1500 250 Model Predicting Training Time Series 0 250 500 750 1000 1250 1500 1750 Model Predicting Training Time Series GBM_grid_1_AutoML_20210422_111253_model_2	1600 - 1400 - 1200 - 1000 - 800 - 600 - 400 - 0 20 40 60 80 100 Model Predicting Holdout Time Series GBM_grid_1_AutoML_20210422_111253_model_2	Residual Plot DRF_1_AutoML_20210422_111449 800 600 400 200 -400 -600 0 20 40 60 80 100 Residual Plot GBM_grid_1_AutoML_20210422_111253_model_2
gbm A Rel. Val. RMSE: 119 Validation Rel. Val. RMSE: 120 Allowable RMSE: 160	1500 - 1400 - 1300 - 1200 - 1100 - 1100 - 1100 - 1100 - 1100 - 1100 - 1100 - 1100 - 1100 - 1100 -	1000 1200 1400 1600 1800 2000 Model Predicting Holdout Dataset XRT_1_AutoML_20210422_111253	2000 - 1500 - 1000 - 1000 1250 1500 1750 Model Predicting Training Time Series XRT_1_AutoML_20210422_111253	2000 - 1800 - 1600 - 1400 - 1200 - 10	600 - 400 - 200 - 0 20 40 60 80 100 Residual Plot XRT_1_AutoML_20210422_111253
drf A Rel. Val. RMSE: 138 Validation Rel. Val. RMSE: 138 Allowable RMSE: 160 1500 1000 1750 1500	1600 - 1400 - 1200 - 1000 - 1000 - 800 - Model Predicting Training Dataset XGBoost_3_AutoML_20210422_111253	1000 1200 1400 1600 1800 2000 Model Predicting Holdout Dataset XGBoost_3_AutoML_20210422_111253	2000 - 1500 - 1000 - 1000 - 1250 1500 1750 Model Predicting Training Time Series XGBoost_3_AutoML_20210422_111253	1800 1600 1400 1000 800 600 0 20 Model Predicting Holdout Time Series XGBoost_3_AutoML_20210422_111253	750 - 500 - 250500750750 - 0 20 40 60 80 100 Residual Plot XGBoost_3_AutoML_20210422_111253
xgboost A Rel. Val. RMSE: 179 Validation Rel. Val. RMSE: 180 Allowable RMSE: 160	1500 - 1400 - 1300 - 1200 - 1100 - 1000 -	1000 1200 1400 1600 1800 2000	1500 - 1000 - 500 - 0 250 500 750 1000 1250 1500 1750	1800 - 1600 - 1400 - 1200 - 1000 - 20 40 60 80 100	600 - 400 - 200 - 0 - 200 2