gbm B Rel. Val. RMSE: -2 Validation Rel. Val. RMSE: -1 Allowable RMSE: 38	Model Predicting Training Dataset GBM_grid_1_AutoML_20210414_105513_model_1GROUP-B  600  500  400  200  100  200  300  300	Model Predicting Holdout Dataset GBM_grid_1_AutoML_20210414_105513_model_1GROUP-B	Model Predicting Training Time Series  GBM_grid_1_AutoML_20210414_105513_model_1GROUP-B  600  400  200  200  200  250  500  750  1000  1250  1500  1750  2000	Model Predicting Holdout Time Series GBM_grid_1_AutoML_20210414_105513_model_1GROUP-B  500  450  400  350  0  20  40  60  80  100	Residual Plot GBM_grid_1_AutoML_20210414_105513_model_1GROUP-B  100  50  -50  -100  20  40  60  80  100
gbm B Rel. Val. RMSE: 15 Validation Rel. Val. RMSE: 15 Allowable RMSE: 38	0 100 200 300 400 500 600  Model Predicting Training Dataset  GBM_grid_1_AutoML_20210414_105513_model_8GROUP-B  600 475  400 425  400 300 400 500 600  Model Predicting Training Dataset  XRT_1_AutoML_20210414_105513GROUP-B	Model Predicting Holdout Dataset  GBM_grid_1_AutoML_20210414_105513_model_8GROUP-B  150 300 350 400 450 500  Model Predicting Holdout Dataset  XRT_1_AutoML_20210414_105513GROUP-B	0 250 500 750 1000 1250 1500 1750 2000  Model Predicting Training Time Series  GBM_grid_1_AutoML_20210414_105513_model_8GROUP-B  600 -	Model Predicting Holdout Time Series GBM_grid_1_AutoML_20210414_105513_model_8GROUP-B  500 - 450 - 400 - 60 80 100  Model Predicting Holdout Time Series XRT_1_AutoML_20210414_105513GROUP-B	Residual Plot GBM_grid1_AutoML_20210414_105513_model_8GROUP-B  100 - 50 - 0 20 40 60 80 100  Residual Plot XRT_1_AutoML_20210414_105513GROUP-B
drf B Rel. Val. RMSE: 15 Validation Rel. Val. RMSE: 15 Allowable RMSE: 38	475 500 - 400 - 300 - 200 - 100 - 0 - 100 - 0 - 100 - 0 - 100 - 0 - 100 - 0 - 100 -	350 400 450 500  Model Predicting Holdout Dataset  KGBoost_grid_1_AutoML_20210414_105513_model_11GROUP-B	600 - 500 - 400 - 300 - 200 - 100 - 0 - 350 - 500 - 750 - 1000 - 1350 - 1750 - 2000	500 - 450 - 400 - 400 - 350 - 250 - 0 20 40 60 80 100 Model Predicting Holdout Time Series XGBoost_grid_1_AutoML_20210414_105513_model_11GROUP-B	100 - 505010020 40 60 80 100  Residual Plot
xgboost B Rel. Val. RMSE: 15 Validation Rel. Val. RMSE: 15 Allowable RMSE: 38	475 400 400 200 200 375 350 325 300 Model Predicting Training Dataset DeepLearning_grid_1_AutoML_20210414_105513_model_1GROUP-B 500 475	50 300 350 400 450 500  Model Predicting Holdout Dataset epLearning_grid_1_AutoML_20210414_105513_model_1GROUP	500 - 400 - 300 - 200 - 750 1000 1250 1500 1750 2000 Model Predicting Training Time Series  -B DeepLearning_grid_1_AutoML_20210414_105513_model_1GROUP-B	450 - 400 - 350 - 250 - 0 20 40 60 80 100 Model Predicting Holdout Time Series  DeepLearning_grid_1_AutoML_20210414_105513_model_1GROUP  500 - 60 80 100 8	100 - 5050100 - 60 80 100  Residual Plot  B DeepLearning_grid_1_AutoML_20210414_105513_model_1GROUP-B  150
deeplearning B Rel. Val. RMSE: 16 Validation Rel. Val. RMSE: 17 Allowable RMSE: 38	450 400 400 200 0 100 200 375 350 325 XGBoost_grid_1_AutoML_20210414_105513_model_10GROUP-B 600 450 450	Model Predicting Holdout Dataset  KGBoost_grid_1_AutoML_20210414_105513_model_10GROUP-B	600 - 400 - 200 - 0 250 500 750 1000 1250 1500 1750 2000 Model Predicting Training Time Series XGBoost_grid_1_AutoML_20210414_105513_model_10GROUP-B	450 - 400 - 350 - 300 - 250 - 40 60 80 100 Model Predicting Holdout Time Series XGBoost_grid_1_AutoML_20210414_105513_model_10GROUP-B 500 - 450 - 4	100 - 50 - 60 80 100  Residual Plot  XGBoost_grid_1_AutoML_20210414_105513_model_10GROUP-B
vahoost A	400 - 425 300 - 400 200 - 375 350 100 - 0 100 200 300 400 500 600  Model Predicting Training Dataset  XGBoost_grid_1_AutoML_20210414_104617_model_12GROUP-A  850 1400 - 800 1200 - 750	So 300 350 400 450 500 Model Predicting Holdout Dataset KGBoost_grid1_AutoML_20210414_104617_model_12GROUP-A	400 - 300 - 200 - 100 - 250 500 750 1000 1250 1500 1750 2000 Model Predicting Training Time Series  XGBoost_grid1_AutoML_20210414_104617_model_12GROUP-A  1600 - 1200	400 - 350 - 300 - 250 - 40 60 80 100 Model Predicting Holdout Time Series XGBoost_grid_1_AutoML_20210414_104617_model_12GROUP-A	50 -
Rel. Val. RMSE: 16 Validation Rel. Val. RMSE: 17 Allowable RMSE: 51  xgboost B Rel. Val. RMSE: 15	700 600 400 200 0 200 400 600 800 1000 1200 1400 1600	500 600 700 800 900  Model Predicting Holdout Dataset  KGBoost_grid1_AutoML_20210414_105513_model_11GROUP-B	800 - 600 - 400 - 200 - 0 250 500 750 1000 1250 1500 1750 2000 Model Predicting Training Time Series  XGBoost_grid_1_AutoML_20210414_105513_model_11GROUP-B  600 - 500 - 400 - 300	700 - 600 - 500 - 0 20 40 60 80 100  Model Predicting Holdout Time Series  XGBoost_grid_1_AutoML_20210414_105513_model_11GROUP-B  500 - 450 - 400 -	50 -
Validation Rel. Val. RMSE: 17 Allowable RMSE: 38  2 0 0.0 0.2 0.4 0.6 0.8 1.0	200 - 350 100 - 0 100 200 300 400 500 600 Model Predicting Training Dataset XGBoost_2_AutoML_20210414_104617GROUP-A  850  1400 - 1200 - 750  800 - 700	300 350 400 450 500  Model Predicting Holdout Dataset  XGBoost_2_AutoML_20210414_104617GROUP-A	200 - 100 - 0 250 500 750 1000 1250 1500 1750 2000 Model Predicting Training Time Series XGBoost_2_AutoML_20210414_104617GROUP-A	350 - 300 - 250 - 40 - 60 - 80 - 100 Model Predicting Holdout Time Series XGBoost_2_AutoML_20210414_104617GROUP-A	-50100150 - 0 20 40 60 80 100  Residual Plot  XGBoost_2_AutoML_20210414_104617GROUP-A
Allowable RMSE: 51  gbm B Rel. Val. RMSE: 18 Validation Rel. Val. RMSE: 18 Allowable RMSE: 38	600 - 650 - 650 - 600 -	500 600 700 800 900  Model Predicting Holdout Dataset  GBM_grid_1_AutoML_20210414_105513_model_5GROUP-B	600 - 400 - 200 - 500 750 1000 1250 1500 1750 2000 Model Predicting Training Time Series GBM_grid_1_AutoML_20210414_105513_model_5GROUP-B	600 - 500 - 60 80 100 Model Predicting Holdout Time Series GBM_grid_1_AutoML_20210414_105513_model_5GROUP-B  500 - 450	-50100150 - 0 20 40 60 80 100  Residual Plot GBM_grid_1_AutoML_20210414_105513_model_5GROUP-B  100 - 50 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -
gbm B Rel. Val. RMSE: 18 Validation Rel. Val. RMSE: 19 Allowable RMSE: 38	350	Model Predicting Holdout Dataset GBM_grid_1_AutoML_20210414_105513_model_11GROUP-B	100 - 0 250 500 750 1000 1250 1500 1750 2000 Model Predicting Training Time Series GBM_grid_1_AutoML_20210414_105513_model_11GROUP-B	300 - 250 40 60 80 100 Model Predicting Holdout Time Series GBM_grid_1_AutoML_20210414_105513_model_11GROUP-B  500 - 450 - 400 - 350 - 300 - 3	-5010
yahoost Δ	300  0	Model Predicting Holdout Dataset XGBoost_grid1_AutoML_20210414_104617_model_5GROUP-A	100 - 0 250 500 750 1000 1250 1500 1750 2000 Model Predicting Training Time Series XGBoost_grid_1_AutoML_20210414_104617_model_5GROUP-A  1600 - 120	300 - 250 40 60 80 100 Model Predicting Holdout Time Series XGBoost_grid_1_AutoML_20210414_104617_model_5GROUP-A 900 - 800 - 600 - 500 - 600 -	-100 -
xgboost B Rel. Val. RMSE: 20 Validation Rel. Val. RMSE: 21 Allowable RMSE: 38	0 200 400 600 800 1000 1200 1400 1600  Model Predicting Training Dataset  XGBoost_grid_1_AutoML_20210414_105513_model_2GROUP-B  600 400 400 400 500 600  300 400 500 600	500 600 700 800 900  Model Predicting Holdout Dataset  XGBoost_grid_1_AutoML_20210414_105513_model_2GROUP-B	0 250 500 750 1000 1250 1500 1750 2000  Model Predicting Training Time Series  XGBoost_grid1_AutoML_20210414_105513_model_2GROUP-B  600  400  200  0 250 500 750 1000 1250 1500 1750 2000	Model Predicting Holdout Time Series XGBoost_grid_1_AutoML_20210414_105513_model_2GROUP-B  500  450  400  350  20  40  60  80  100  ARROWS A	0 20 40 60 80 100  Residual Plot  XGBoost_grid1_AutoML_20210414_105513_model_2GROUP-B  150
gbm B Rel. Val. RMSE: 22 Validation Rel. Val. RMSE: 23 Allowable RMSE: 38	Model Predicting Training Dataset GBM_1_AutoML_20210414_105513GROUP-B  480  490  400  400  400  380  360  100  0  100  0  100  200  Model Predicting Training Dataset GBM_2_AutoML_20210414_105513GROUP-B	Model Predicting Holdout Dataset GBM_1_AutoML_20210414_105513GROUP-B  50 300 350 400 450 500 Model Predicting Holdout Dataset GBM_2_AutoML_20210414_105513GROUP-B	Model Predicting Training Time Series GBM_1_AutoML_20210414_105513GROUP-B  600  400  200  0 250 500 750 1000 1250 1500 1750 2000 Model Predicting Training Time Series GBM_2_AutoML_20210414_105513GROUP-B	Model Predicting Holdout Time Series GBM_1_AutoML_20210414_105513GROUP-B  500  450  400  350  0  0  0  0  0  Model Predicting Holdout Time Series GBM_2_AutoML_20210414_105513GROUP-B	Residual Plot GBM_1_AutoML_20210414_105513GROUP-B  150  100  50  -50  -100  0  20  40  60  80  100  Residual Plot GBM_2_AutoML_20210414_105513GROUP-B
gbm B Rel. Val. RMSE: 23 Validation Rel. Val. RMSE: 23 Allowable RMSE: 38	600 -	Model Predicting Holdout Dataset  KGBoost_grid_1_AutoML_20210414_104617_model_11GROUP-A	600 - 500 - 400 - 300 - 200 - 750 1000 1250 1500 1750 2000 Model Predicting Training Time Series  XGBoost_grid_1_AutoML_20210414_104617_model_11GROUP-A	500 - 450 - 400 - 350 - 300 - 250 - 40 60 80 100 Model Predicting Holdout Time Series XGBoost_grid_1_AutoML_20210414_104617_model_11GROUP-A	150 - 100 - 50 100 100 100 100 - Residual Plot
xgboost A Rel. Val. RMSE: 23 Validation Rel. Val. RMSE: 23 Allowable RMSE: 51	1200 -	500 600 700 800 900  Model Predicting Holdout Dataset  XGBoost_3_AutoML_20210414_104617GROUP-A	1400 - 1200 - 1000 - 800 - 600 - 400 - 200 - 0 - 250 500 750 1000 1250 1500 1750 2000 Model Predicting Training Time Series XGBoost_3_AutoML_20210414_104617GROUP-A	800 - 700 - 600 - 500 - 600 - 80 100 Model Predicting Holdout Time Series XGBoost_3_AutoML_20210414_104617GROUP-A	100 - 50 - 0 - -100 - -150 - 0 20 40 60 80 100 Residual Plot XGBoost_3_AutoML_20210414_104617GROUP-A
xgboost A Rel. Val. RMSE: 24 Validation Rel. Val. RMSE: 24 Allowable RMSE: 51	1000 -	500 600 700 800 900  Model Predicting Holdout Dataset search_selectionAutoML_20210414_104617_select_grid_model_5_	1200 - 1000 - 800 - 600 - 400 - 200 - 500 750 1000 1250 1500 1750 2000 Model Predicting Training Time Series  XGBROMPHAsearch_selection_AutoML_20210414_104617_select_grid_model_5_XGBR6  1600 - 1400 - 1200	800 - 700 - 600 - 500 - 600 - 800 100 Model Predicting Holdout Time Series  **IPHA*search_selection_AutoML_20210414_104617_select_grid_model_5_  900 - 800 - 800 - 800 100	5050100150 - 0 20 40 60 80 100  Residual Plot  XGBBOSTPHASearch_selection_AutoML_20210414_104617_select_grid_model_5GROUP-A
Rel. Val. RMSE: 24 Validation Rel. Val. RMSE: 26 Allowable RMSE: 51  gbm B Rel. Val. RMSE: 24	1000 -	500 600 700 800 900  Model Predicting Holdout Dataset  GBM_3_AutoML_20210414_105513GROUP-B	1000 - 800 - 600 - 400 - 200 - 0 250 500 750 1000 1250 1500 1750 2000 Model Predicting Training Time Series GBM_3_AutoML_20210414_105513GROUP-B	700 - 600 - 500 - 0 20 40 60 80 100 Model Predicting Holdout Time Series GBM_3_AutoML_20210414_105513GROUP-B	50 - 050100150200 - 0 - 20
Validation Rel. Val. RMSE: 25 Allowable RMSE: 38  deeplearning B Rel. Val. RMSE: 25 Validation Rel. Val. RMSE: 25 Validation Rel. Val. RMSE: 26	300 - 375 200 - 350 100 - 325 300 0 - 100 200 300 400 500 600 Model Predicting Training Dataset DeepLearning_grid_3_AutoML_20210414_105513_model_1GROUP-B 500 - 440 420 400 - 380 300 - 360	Model Predicting Holdout Dataset epLearning_grid_3_AutoML_20210414_105513_model_1GROUP	300 - 200 - 100 - 100 - 1250   1500   1750   2000   1750	350 - 300 - 250 40 60 80 100 Model Predicting Holdout Time Series  DeepLearning_grid_3_AutoML_20210414_105513_model_1GROUP  500 - 450 - 400 -	050100 -
Allowable RMSE: 38  2	340 320 100 100 200 300 400 500 600 Model Predicting Training Dataset XGBoost_grid_1_AutoML_20210414_104617_model_3GROUP-A  1600 1400 1200 1000 600 600 600 600	Model Predicting Holdout Dataset XGBoost_grid1_AutoML_20210414_104617_model_3GROUP-A	200 - 100 - 0 250 500 750 1000 1250 1500 1750 2000 Model Predicting Training Time Series XGBoost_grid_1_AutoML_20210414_104617_model_3GROUP-A 1600 - 1400 - 1200 - 1000 - 800 - 600 -	350 - 300 - 250 40 60 80 100  Model Predicting Holdout Time Series  XGBoost_grid_1_AutoML_20210414_104617_model_3GROUP-A  900 - 800 - 700 - 60	-50 -100 -50 -100 -50 -100 -50 -50 -50 -50 -50 -50 -50 -50 -50 -
xgboost B Rel. Val. RMSE: 26 Validation Rel. Val. RMSE: 26 Allowable RMSE: 38	200 - 0 - 200 400 600 800 1000 1200 1400 1600 Model Predicting Training Dataset XGBoost_grid_1_AutoML_20210414_105513_model_8GROUP-B 500 475 450 400 - 375 350 100 - 325 325	500 600 700 800 900  Model Predicting Holdout Dataset  XGBoost_grid1_AutoML_20210414_105513_model_8GROUP-B	200 - 0 250 500 750 1000 1250 1500 1750 2000 Model Predicting Training Time Series XGBoost_grid_1_AutoML_20210414_105513_model_8GROUP-B	500 - 400 - 60 80 100  Model Predicting Holdout Time Series  XGBoost_grid_1_AutoML_20210414_105513_model_8GROUP-B  500 - 450 - 450 - 350 - 300	-150 -
drf B Rel. Val. RMSE: 26 Validation Rel. Val. RMSE: 38	0 - 100 200 300 400 500 600 Model Predicting Training Dataset DRF_1_AutoML_20210414_105513GROUP-B 480 440 440 440 420 420 420 300 - 380 360 100 - 340 320	Model Predicting Holdout Dataset DRF_1_AutoML_20210414_105513GROUP-B	0 250 500 750 1000 1250 1500 1750 2000  Model Predicting Training Time Series  DRF_1_AutoML_20210414_105513GROUP-B  600 -	250 - 0 20 40 60 80 100  Model Predicting Holdout Time Series DRF_1_AutoML_20210414_105513GROUP-B  500 - 450 -	100 - 20 40 60 80 100  Residual Plot  DRF_1_AutoML_20210414_105513GROUP-B
xgboost B Rel. Val. RMSE: 27 Validation Rel. Val. RMSE: 27 Allowable RMSE: 38	Model Predicting Training Dataset XGBoost_2_AutoML_20210414_105513GROUP-B  480 460 440 400 420 300 200 380 360 100 0 100 200 300 400 500 600	Model Predicting Holdout Dataset	Model Predicting Training Time Series  XGBoost_2_AutoML_20210414_105513GROUP-B  600  400  200  0 250 500 750 1000 1250 1500 1750 2000  Model Predicting Training Time Series  XGBoost_grid_1_AutoML_20210414_104617_model_24GROUP-A	Model Predicting Holdout Time Series XGBoost_2_AutoML_20210414_105513GROUP-B  500  450  450  400  Model Predicting Holdout Time Series  XGBoost_grid_1_AutoML_20210414_104617_model_24GROUP-A	0 20 40 60 80 100  Residual Plot  XGBoost_2_AutoML_20210414_105513GROUP-B  150 -
xaboost A	1600 - 1400 - 850 1200 - 800 - 750 800 - 750 400 - 600 - 700 400 - 650 200 - 600 800 1000 1200 1400 1600 Model Predicting Training Dataset GBM_grid_1_AutoML_20210414_104617_model_6GROUP-A	500 600 700 800 900  Model Predicting Holdout Dataset  GBM_grid_1_AutoML_20210414_104617_model_6GROUP-A	AGBOOST_GRIQ_I_AutoML_20210414_104017_model_24GROOF-A  1600 1400 1200 1000 1000 1000 1000 1000 10	900 - 800 - 700 - 600 - 500 - Model Predicting Holdout Time Series GBM_grid_1_AutoML_20210414_104617_model_6GROUP-A	XGBoost_grid1_AutoML_20210414_104617_model_24GROUP-A  100 -
gbm A Rel. Val. RMSE: 28 Validation Rel. Val. RMSE: 28 Allowable RMSE: 51	1400 -	500 600 700 800 900  Model Predicting Holdout Dataset  DRF_1_AutoML_20210414_104617GROUP-A	1400 - 1200 - 1000 - 800 - 400 - 200 - 0 250 500 750 1000 1250 1500 1750 2000 Model Predicting Training Time Series DRF_1_AutoML_20210414_104617GROUP-A	900 - 800 - 700 - 600 - 500 - 0 20 40 60 80 100 Model Predicting Holdout Time Series DRF_1_AutoML_20210414_104617GROUP-A	100 - 50 - 0 - -100 - -150 - 0 20 40 60 80 100 Residual Plot DRF_1_AutoML_20210414_104617GROUP-A
drf A Rel. Val. RMSE: 28 Validation Rel. Val. RMSE: 29 Allowable RMSE: 51	750 800 600 400 200 0 200 400 600 800 1000 1200 1400 1600	500 600 700 800 900  Model Predicting Holdout Dataset  XGBoost_grid_1_AutoML_20210414_105513_model_5GROUP-B	1200 - 1000 - 800 - 600 - 400 - 200 - 0 250 500 750 1000 1250 1500 1750 2000	800 - 700 - 600 - 500 - 0 20 40 60 80 100 Model Predicting Holdout Time Series XGBoost_grid_1_AutoML_20210414_105513_model_5GROUP-B	100 - 100 - 100 - 20 40 60 80 100
Allowable Rivise. 36  2- 0.0 0.2 0.4 0.6 0.8 1.0  8-  xgboost B	400 - 300 - 350 - 350 - 300 - 400 - 500 - 600 - Model Predicting Training Dataset XGBoost_grid_1_AutoML_20210414_105513_model_7GROUP-B - 500 - 450 - 400 - 500 - 450	300 350 400 450 500  Model Predicting Holdout Dataset  XGBoost_grid_1_AutoML_20210414_105513_model_7GROUP-B	400 - 300 - 200 - 100 - 250 500 750 1000 1250 1500 1750 2000 Model Predicting Training Time Series  XGBoost_grid_1_AutoML_20210414_105513_model_7GROUP-B  600 - 500 - 400 -	450 - 400 - 350 - 300 - 250	50 -
Rel. Val. RMSE: 29 Validation Rel. Val. RMSE: 29 Allowable RMSE: 38	400  200 -  100 -  0 100 200 300 400 500 600  Model Predicting Training Dataset  XGBoost_grid_1_AutoML_20210414_104617_model_12GROUP-A  1400 -  1200 -  1000 -  800 -	Model Predicting Holdout Dataset  KGBoost_grid1_AutoML_20210414_104617_model_12GROUP-A	300 - 200 - 100 - 0 250 500 750 1000 1250 1500 1750 2000 Model Predicting Training Time Series XGBoost_grid_1_AutoML_20210414_104617_model_12GROUP-A 1600 - 1400 - 1200 - 1000 - 1000 -	400 - 350 - 300 - 250	5050100100100 - Residual Plot  XGBoost_grid_1_AutoML_20210414_104617_model_12GROUP-A  250100150100150100
	700	500 600 700 800 900	1000 - 800 - 600 - 400 - 200 - 0 250 500 750 1000 1250 1500 1750 2000	700 - 600 - 500 - 400 - 0 20 40 60 80 100	100- 50- 0- -50- -100- 0 20 40 60 80 100