gbm B Rel. Val. RMSE: -46 Validation Rel. Val. RMSE: -46	1200 - 1195 -	1500 -		200 -	· · · · · · · · · · · · · · · · · · ·
Allowable RMSE: 131	1190 - 1185 - 1180 -	1500 - 1250 - 1000 - 750 - 500 -			200 -
0.0 0.0 0.0 0.0 0.2 0.4 0.6 0.8 1.0 0 0 0 0 0 0 0 0 0 0 0 0 0	1175 - 1250 1500 1750 2000 700 800 900 1000 ning Dataset Model Predicting Hole 1426_114603 GBM_4_AutoML_2021	1100 1200 1300 0 250	500 750 1000 1250 1500 1750 Model Predicting Training Time Series GBM_4_AutoML_20210426_114603	-4 -5 0 20 40 60 80 100 Model Predicting Holdout Time Series GBM_4_AutoML_20210426_114603	400 - 500 - 0 20 40 60 80 100 Residual Plot GBM_4_AutoML_20210426_114603
gbm B Rel. Val. RMSE: -46 Validation Rel. Val. RMSE: -46 Allowable RMSE: 131	1240 - 1230 - 1220 -	1750 - 1500 - 1250 - 1000 - 750 -		200	0 - 100 - 200 -
0.2 - 1125 - 1100 - 1125 - 1100 - 110	1210 - 1200 - 1250 1500 1750 2000 700 800 900 1000 ning Dataset Model Predicting Hole GBM_1_AutoML_2021	1100 1200 1300 0 250 Idout Dataset	500 750 1000 1250 1500 1750 Model Predicting Training Time Series GBM_1_AutoML_20210426_114603	-3 -4 -5 -6 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7	300 - 400 - 500 - 0 20 40 60 80 100 Residual Plot GBM_1_AutoML_20210426_114603
0.8- 0.8- gbm B Rel. Val. RMSE: -45	1250 -	2000 - 1750 - 1500 - 1250 -		1	100 -
Validation Rel. Val. RMSE: -44 Allowable RMSE: 131	1230 - 1220 - 1210 - 1250 1500 1750 2000 700 800 900 1000	750 - 500 - 250 - 0 - 1100 1200 1300 0 250	500 750 1000 1250 1500 1750	-3 -3 -4 -5	300 - 400 - 500 -
0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.9 -	Model Predicting Hole GBM_5_AutoML_2021	Idout Dataset L0426_114603 2000 - 1750 -	Model Predicting Training Time Series GBM_5_AutoML_20210426_114603	Model Predicting Holdout Time Series GBM_5_AutoML_20210426_114603	Residual Plot GBM_5_AutoML_20210426_114603
Rel. Val. RMSE: -42 Validation Rel. Val. RMSE: -42 Allowable RMSE: 131	1240 - 1230 - 1220 - 1210 -	1250 - 1000 - 750 - 500 - 250 -		-2 -3 -3 -4 -500	200 -
0.0 0.2 0.4 0.6 0.8 1.0 0 250 500 750 1000 1 Model Predicting Traini GLM_1_AutoML_202104	0.025 -	1100 1200 1300 0 250		0 20 40 60 80 100 Model Predicting Holdout Time Series GLM_1_AutoML_20210426_114603	0 20 40 60 80 100 Residual Plot GLM_1_AutoML_20210426_114603
glm B Rel. Val. RMSE: -41 Validation Rel. Val. RMSE: -41 Allowable RMSE: 131	0.020 - 0.015 - 0.010 -	1500 - 1250 - 1000 - 750 - 500 -		-1 -2 -000	100 - 200 - 300 -
0.0	0.005 - 1250 1500 1750 2000 700 800 900 1000 Model Predicting Hole GBM_3_AutoML_2021		500 750 1000 1250 1500 1750 Model Predicting Training Time Series GBM_3_AutoML_20210426_114603	-4 -5 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0	400 - 500 - 0 20 40 60 80 100 Residual Plot GBM_3_AutoML_20210426_114603
0.8- 0.8- 0.8- 0.8- 0.8- 0.8- 0.8- 0.8-	1225 -	1750 - 1500 - 1250 - 1000 -		200	0 - 100 - 200 -
Allowable RMSE: 131	1215 - 1210 - 1250 1500 1750 2000 700 800 900 1000 ning Dataset Model Predicting Hole	1100 1200 1300 0 250	500 750 1000 1250 1500 1750 Model Predicting Training Time Series Ensemble_AllModels_AutoML_20210426_114603	-3 -4 -5 -600 -600 -600 -600 -600 -600 -600 -	300 - 400 - 500 - 0 20 40 60 80 100 Residual Plot
stackedensemble B Rel. Val. RMSE: -13	StackedEnsemble_AllModels_Aut	2000 - 1750 - 1500 - 1250 -	12	300 - StackedErisemble_AllModels_AdtoML_20210426_114803	StackedEnsemble_AllModels_AutoML_20210426_114603
Validation Rel. Val. RMSE: -13 Allowable RMSE: 131	1100 -	750 - 500 - 250 - 0 -	9	-2 -2 -0004 -6	200 - 400 - 500 -
Model Predicting Traini StackedEnsemble_BestOfFamily_Aut 1.0 1750 -	1250 1500 1750 2000 700 800 900 1000 ning Dataset	AutoML_20210426_114603	Model Predicting Training Time Series semble_BestOfFamily_AutoML_20210426_114603	Model Predicting Holdout Time Series StackedEnsemble_BestOfFamily_AutoML_20210426_114603	0 20 40 60 80 100 Residual Plot StackedEnsemble_BestOfFamily_AutoML_20210426_114603
Rel. Val. RMSE: 0 Validation Rel. Val. RMSE: 0 Allowable RMSE: 131	1100 - 1000 - 900 - 800 -	1250 - 1000 - 750 - 500 - 250 -		200 - 0	200 -
0.0 0.2 0.4 0.6 0.8 1.0 0 250 500 750 1000 1 Model Predicting Traini DRF_1_AutoML_202104	700		500 750 1000 1250 1500 1750 Model Predicting Training Time Series DRF_1_AutoML_20210426_114603	700	400 - 0 20 40 60 80 100 Residual Plot DRF_1_AutoML_20210426_114603
o.6- Rel. Val. RMSE: 50 Validation Rel. Val. RMSE: 50 Allowable RMSE: 131	1200 - 1200 - 1000 - 800 -	1500 - 1250 - 1000 - 750 -		200 - 2	400 - 200 - 0 - 200 -
0.2	1250 1500 1750 2000 700 800 900 1000 ning Dataset 426_114543 GLM_1_AutoML_20210	1100 1200 1300 0 250 Idout Dataset .0426_114543	500 750 1000 1250 1500 1750 Model Predicting Training Time Series GLM_1_AutoML_20210426_114543	-4 -6 -6 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7	400 - 500 - 0 20 40 60 80 100 Residual Plot GLM_1_AutoML_20210426_114543
0.8- glm A Rel. Val. RMSE: 132 Validation Rel. Val. RMSE: 133	1400 - 1300 - 1200 - 1100 -	1500 -		300 - 100 - 300 -	200 - 200 -
Allowable RMSE: 160 0.2- 0.0 0.0 0.2 0.4 0.6 0.80 0.80 0.80 0.80 0.80 0.80 0.80	1000 - 900 - 800 - 1500 2000 1000 1200 1400 ning Dataset Model Predicting Hole	1600 1800 2000 0 250 Idout Dataset	500 750 1000 1250 1500 1750 Model Predicting Training Time Series	200	0 - 200 - 400 - 60 80 100 Residual Plot
stackedensemble A Rel. Val. RMSE: 154	1800 -	2000 - 1500 -	18		StackedEnsemble_AllModels_AutoML_20210426_114543 200 -
Validation Rel. Val. RMSE: 154 Allowable RMSE: 160	1200 -	1000 -		200 - 2	200 - 2
0.0 0.2 0.4 0.6 0.8 1.0 0 500 1000 Model Predicting Traini StackedEnsemble_BestOfFamily_Aut	1800 -	1600 1800 2000 0 250 Idout Dataset AutoML_20210426_114543 StackedEns	Model Predicting Training Time Series semble_BestOfFamily_AutoML_20210426_114543	750 -	0 20 40 60 80 100 Residual Plot StackedEnsemble_BestOfFamily_AutoML_20210426_114543
Rel. Val. RMSE: 220 Validation Rel. Val. RMSE: 221 Allowable RMSE: 160	1200 - 1000 - 800 - 600 - 400 -	1000 -		250 - 600 - 250 - 2	500 - 400 - 200 - 0 -
0.0	1750 -	1600 1800 2000 0 250 Idout Dataset 0426_114543	500 750 1000 1250 1500 1750 Model Predicting Training Time Series DRF_1_AutoML_20210426_114543 20 17	750	200 -
o.6 Rel. Val. RMSE: 243 Validation Rel. Val. RMSE: 244 Allowable RMSE: 160	1250 - 1000 - 750 -	1500 -	12 10	7 200 - 5	250 - 250 - A
0.0		1600 1800 2000 0 250 Idout Dataset 210426_114603	500 750 1000 1250 1500 1750 Model Predicting Training Time Series XGBoost_1_AutoML_20210426_114603	-2 0 20 40 60 80 100 Model Predicting Holdout Time Series XGBoost_1_AutoML_20210426_114603	0 20 40 60 80 100 Residual Plot XGBoost_1_AutoML_20210426_114603
xgboost B Rel. Val. RMSE: 641 Validation Rel. Val. RMSE: 641 Allowable RMSE: 131	400 - 300 - 200 -	1750 - 1500 - 1250 - 1000 - 750 -		800 - 600 - 6	300 - 500 -
0.2	100 - 1250 1500 1750 2000 700 800 900 1000 ning Dataset Model Predicting Hole 10426_114603 XGBoost_3_AutoML_202	1100 1200 1300 0 250 Idout Dataset 210426_114603	500 750 1000 1250 1500 1750 Model Predicting Training Time Series XGBoost_3_AutoML_20210426_114603	0 20 40 60 80 100 Model Predicting Holdout Time Series XGBoost_3_AutoML_20210426_114603	400 - 200 - 0 20 40 60 80 100 Residual Plot XGBoost_3_AutoML_20210426_114603
xgboost B Rel. Val. RMSE: 667	390 - 380 - 370 - 360 -	2000 - 1750 - 1500 - 1250 - 1000 -		800 - 800 - 7	900 - 800 - 700 - 600 -
		750 - 500 - 250 - 0 - 1100 1200 1300 0 250	500 750 1000 1250 1500 1750	300 - 500 -	500 - 400 - 500 - 7
Model Predicting Traini XGBoost_2_AutoML_2021		Idout Dataset 210426_114603 2000 - 1750 - 1250 -	Model Predicting Training Time Series XGBoost_2_AutoML_20210426_114603	Model Predicting Holdout Time Series XGBoost_2_AutoML_20210426_114603	Residual Plot XGBoost_2_AutoML_20210426_114603
Rel. Val. RMSE: 726 Validation Rel. Val. RMSE: 727 Allowable RMSE: 131	300 - 250 - 200 - 150 - 100 -	1000 - 750 - 500 - 250 -		800 - 8	500 -
Model Predicting Traini XGBoost_3_AutoML_2021	1250 1500 1750 2000 700 800 900 1000 ning Dataset 10426_114543 XGBoost_3_AutoML_202	1100 1200 1300 0 250 Idout Dataset 210426_114543	Model Predicting Training Time Series XGBoost_3_AutoML_20210426_114543	750 - 14	0 20 40 60 80 100 Residual Plot XGBoost_3_AutoML_20210426_114543
xgboost A Rel. Val. RMSE: 1035 Validation Rel. Val. RMSE: 1035 Allowable RMSE: 160	450 -	1500 -		250 -	200 - 2
0.0 0.0 0.2 0.4 0.6 0.8 1.0 0 500 1000 Model Predicting Traini XGBoost_1_AutoML_2021	1500 2000 1000 1200 1400 ing Dataset Model Predicting Hole XGBoost_1_AutoML_202	1600 1800 2000 0 250 Idout Dataset 210426_114543	500 750 1000 1250 1500 1750 Model Predicting Training Time Series XGBoost_1_AutoML_20210426_114543		0 20 40 60 80 100 Residual Plot XGBoost_1_AutoML_20210426_114543
xgboost A Rel. Val. RMSE: 1060 Validation Rel. Val. RMSE: 1061	500 - 400 - 300 - 200 -	1500 -	15 12	250 -	400 - 800 - 200 - 100 - 2000 -
Allowable RMSE: 160 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0	100 - 1500 2000 1000 1200 1400 ining Dataset 10426_114543 XGBoost_2_AutoML_202	1600 1800 2000 0 250 Idout Dataset 210426_114543	production of the second of th	800 -	900 - 900 - 700 - 0 20 40 60 80 100 Residual Plot XGBoost_2_AutoML_20210426_114543
xgboost A Rel. Val. RMSE: 1097	550 - 500 - 450 -	2000 -	17 15	1600 - 1600 - 1600 - 14	AGBOOSt_Z_AutoML_20210426_114343 500 -
Validation Rel. Val. RMSE: 1098 Allowable RMSE: 160	350 - 300 - 250 - 200 - 1500 2000 1000 1200 1400	1000 - 500 - 500 - 0 250	IN TO THE TO THE TOTAL T	250 - 8 800 - 8 250 - 8	300 -