frame 75-25

Assistance

	Routine	Description
	importFiles	Import file(s) into H_2O
	importSqlTable	Import SQL table into H_2O
	getFrames	Get a list of frames in H_2O
	splitFrame	Split a frame into two or more frames
	mergeFrames	Merge two frames into one
	getModels	Get a list of models in H_2O
	getGrids	Get a list of grid search results in H_2O
	getPredictions	Get a list of predictions in H_2O
	getJobs	Get a list of jobs running in H_2O
	runAutoML	Automatically train and tune many models
	buildModel	Build a model
	importModel	Import a saved model
	predict	Make a prediction

Import Files

Search: C:\Users\prans_2efeuxw\Desktop\Ripik.AI\145TPD\145_TPD_flat.csv

Search Results: (All files added)

Selected Files: 1 file selected: Clear All

✖ C:\Users\prans_2efeuxw\Desktop\Ripik.AI\145TPD\145_TPD_flat.csv

Actions: Import

1 / 1 files imported.

Files C:\Users\prans_2efeuxw\Desktop\Ripik.AI\145TPD\145_TPD_flat.csv

Actions Parse these files...

Setup Parse

PARSE CONFIGURATION

Sources nfs:\C:\Users\prans_2efeuxw\Desktop\Ripik.AI\145TPD\145_TPD_flat.csv

ID X145_TPD_flat.hex

Parser CSV

Separator ,: '044'

Escape Character 0

Column Headers
- ○ Auto
- ◉ First row contains column names
- ○ First row contains data

Options
- ☐ Enable single quotes as a field quotation character
- ☑ Delete on done

EDIT COLUMN NAMES AND TYPES

Search by column name...

1	DateTime	Enum	11:57.4	26:57.4	41:57.4	56:57.4	11:5
2	Melter Gas	Numeric	46.56670761	44.75955963	46.75978088	5	46.(
3	Header Gas	Numeric	1.907552123	1.911675334	1.903862834	1.923611164	1.9(
4	ThermoCoup	Numeric	131.9000092	425.1000061	290.8999939	113.4000015	451
5	ThermoCoup	Numeric	115.5	552.7999878	262.1000061	105.2000046	562
6	ThermoCoup	Numeric	470.1000061	237	310	485	199
7	ThermoCoup	Numeric	497.2000122	212.8000031	342.5	508.3000183	174
8	Glass leve	Numeric	0.132523537	0.032407761	0.04745388	-0.015625	0.0(
9	Fibber Opt	Numeric	1330.30957	1330.410889	1329.947876	1329.658569	132(
10	Fibber Opt	Numeric	1372.612793	1372.569458	1372.453735	1372.309082	137(
11	High Pressu	Numeric	41.11979294	41.25000381	41.01562881	40.91146088	40.(
12	High Pressu	Numeric	39.98263931	40.24088669	40.04557419	40.04774475	39.(
13	ThermoCoup	Numeric	1344.5	1307.700073	1320.900024	1340.099976	130(
14	ThermoCoup	Numeric	1262	1261.800049	1261.599976	1261.900024	126(
15	Melter Gas	Numeric	815	815	815	815	815

← Previous page → Next page

Parse

Job

Run Time 00:00:00.690

Remaining Time 00:00:00.0

Type Frame
Key X145_TPD_flat.hex
Description Parse
Status DONE
Progress 100%
Done.
Actions View

X145_TPD_flat.hex

Actions: View Data | Split | Build Model | Run AutoML | Predict | Delete | Download | Export

Rows	*Columns*	*Compressed Size*
454	30	135KB

COLUMN SUMMARIES

label	*type*	*Missing*	*Zeros*	*+Inf*	*-Inf*	*min*	*max*	*mean*
DateTime	enum	0	4	0	0	0	62.0	·
Melter Gas Flow Valve Opening _DB885,DD670,QC	real	0	0	0	0	5.0	50.5068	45.0835
Header Gas Pressure - Gail_DB1367,DD0,QC	real	0	0	0	0	1.8550	1.9731	1.9095
ThermoCouple Flue Pass left Inner _DB872,DD0,QC	real	0	0	0	0	109.9000	476.6000	295.9535
ThermoCouple Flue Pass left outer _DB874,DD0,QC	real	0	0	0	0	105.2000	581.0	350.2531
ThermoCouple Flue Pass Right Inner _DB876,DD0,QC	real	0	0	0	0	143.8000	485.0	319.9220
ThermoCouple Flue Pass Right outer _DB879,DD0,QC	real	0	0	0	0	132.8000	510.8000	335.6749
Glass level_DB1177,DD0,QC	real	0	17	0	0	-0.8513	0.9462	0.0224
Fibber Optic Thermometer -								

Previous 20 Columns | Next 20 Columns

▸ CHUNK COMPRESSION SUMMARY

▸ FRAME DISTRIBUTION SUMMARY

Split Frame

Frame: X145_TPD_flat.hex

Splits:

Ratio	*Key*	
0.75	frame_0.750	✖
0.250	frame_0.250	

Add a new split

Seed: 826533

Create

Split Frames

Type	*Key*	*Ratio*
	frame_0.750	0.75
	frame_0.250	0.25

Run AutoML

PARAMETERS

*training_frame** frame_0.750

*response_column** Melter Gas flow_DB885,DD134,QC

validation_frame (Choose...)

blending_frame (Choose...)

leaderboard_frame (Choose...)

project_name

distribution AUTO

ADVANCED

fold_column (Choose...)

weights_column (Choose...)

ignored_columns Search...

Showing page 3 of 3. -27 ignored.

☐ chem_comp_Fe2O3	REAL	
☐ chem_comp_CaO	REAL	
☐ chem_comp_MgO	REAL	
☐ chem_comp_Na2O	REAL	
☐ chem_comp_K2O	REAL	
☐ chem_comp_SO3	REAL	
☐ physical_test_density_gm_cc	REAL	
☐ physical_test_seed_count_result	INT	1% NA
☑ C29	INT	100% NA
☑ Melter Gas flow_DB885,DD134,QC	REAL	

☑ All ☐ None ← Previous 10 → Next 10

Only show columns with more than 0 % missing values.

sort_metric AUTO

exclude_algos Search...

- ☐ GLM
- ☐ DRF
- ☐ GBM
- ☐ DeepLearning
- ☐ StackedEnsemble
- ☐ XGBoost

☑ All ☐ None

exploitation_ratio -1

monotone_constraints Choose... ↔ +

nfolds -1

balance_classes ☐

seed	-1
max_models	0
max_runtime_secs	0
max_runtime_secs_per_model	0

stopping_rounds 3

stopping_metric AUTO

stopping_tolerance -1

EXPERT

keep_cross_validation_predictions

keep_cross_validation_models ☑

keep_cross_validation_fold_assignment ☐

export_checkpoints_dir

Build Models

Job

Run Time 00:59:23.886

Remaining Time 00:00:00.0

Type AutoML

Key AutoML_1_20220526_233942@@Melter_Gas_flow_DB885_DD134_QC

Description AutoML build

Status DONE

Progress 100%

Done.

Actions View

Predict

Name: prediction-93b49b69-79c

Model: DRF_1_AutoML_1_20220526_233942

Frame: frame_0.250

Actions: Predict

Prediction

Actions: Inspect

▾ PREDICTION

model	DRF_1_AutoML_1_20220526_233942
model_checksum	-790682532702269304
frame	frame_0.250
frame_checksum	-6131673315985395186
description	·
model_category	Regression
scoring_time	1653592986630
predictions	prediction-93b49b69-796c-4308-9c09-d676e5240b7c
MSE	7095.623807
RMSE	84.235526
nobs	102
custom_metric_name	·
custom_metric_value	0
r2	0.603203
mean_residual_deviance	7095.623807
mae	24.821034
rmsle	0.226689

Combine predictions with frame

Model

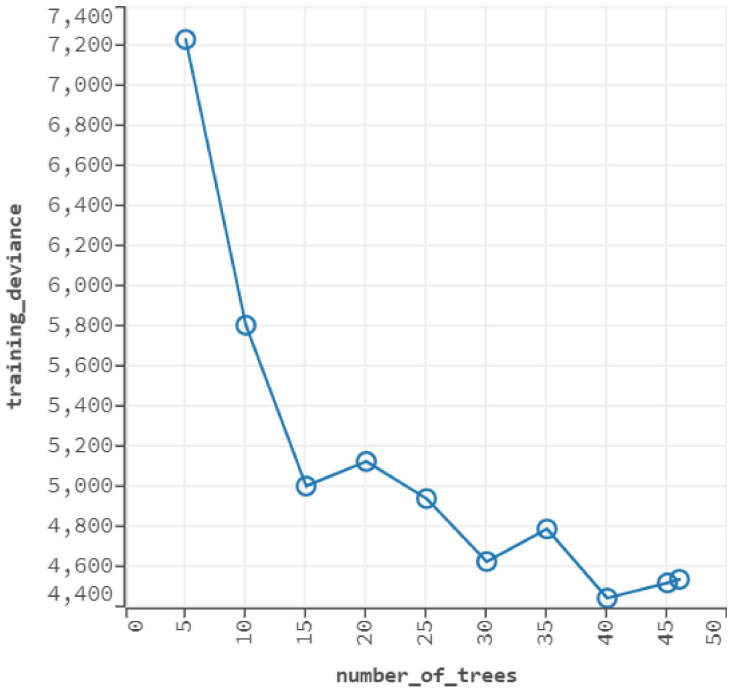
Model ID: DRF_1_AutoML_1_20220526_233942

Algorithm: Distributed Random Forest

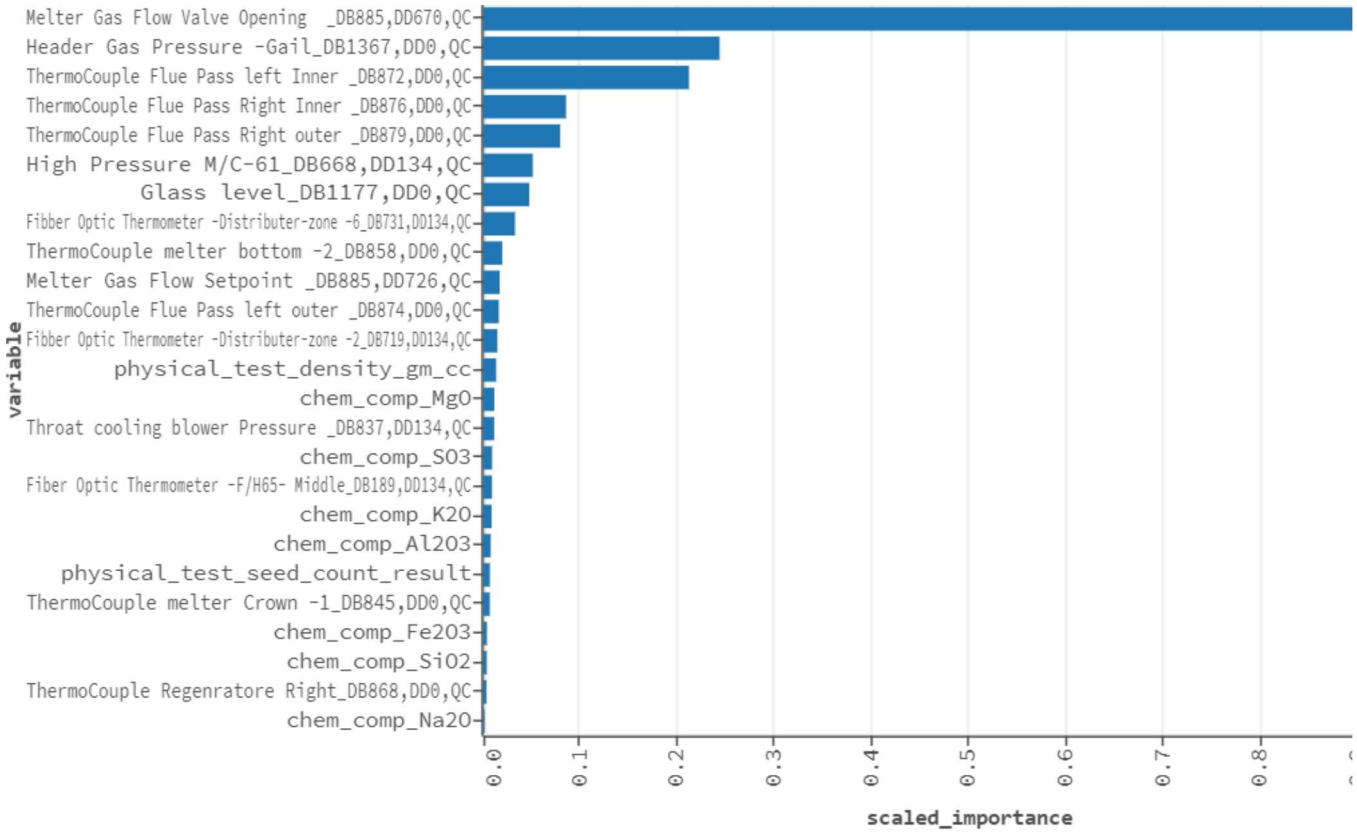
Actions: Refresh | Predict... | Download POJO | Download Model Deployment Package (MOJO) | Export | Inspect | Delete | Download Gen Model

▸ MODEL PARAMETERS

▾ SCORING HISTORY - DEVIANCE



VARIABLE IMPORTANCES



OUTPUT

COLUMN_TYPES

CROSS_VALIDATION_MODELS

CROSS_VALIDATION_PREDICTIONS

▸ OUTPUT - MODEL SUMMARY

▸ OUTPUT - SCORING HISTORY

▸ CV_SCORING_HISTORY

▸ OUTPUT - TRAINING_METRICS

▸ OUTPUT - CROSS_VALIDATION_METRICS

▸ OUTPUT - CROSS-VALIDATION METRICS SUMMARY

▸ OUTPUT - VARIABLE IMPORTANCES

▾ PREVIEW POJO

Preview POJO

Partial Dependence

Save Destination PDP as:	pdp-095da293-aa8d-442f-8984-8523b	
Model:	DRF_1_AutoML_1_20220526_233942	
Frame:	frame_0.750	
row_index	-1	Row for which partial dependence will be calculated ir input frame (-1 for all).
nbins	20	How many levels should PDP compute. More levels w
Select columns?	☑	Checking this will allow you to select custom columns default, the top 10 features are used. Those features a variable importance.

Available columns: Search...

Showing page 1 of 1. 17 selected for PDP calculations.

☐ chem_comp_CaO	REAL	
☐ chem_comp_MgO	REAL	
☐ chem_comp_Na2O	REAL	
☐ chem_comp_K2O	REAL	
☐ chem_comp_SO3	REAL	
☐ physical_test_density_gm_cc	REAL	
☐ physical_test_seed_count_result	INT	1% NA
☐ C29	INT	100% NA
☐ Melter Gas flow_DB885,DD134,QC	REAL	

☑ All ☐ None ← Previous 10

2D PDP Columns: + Add Select lists of column name pairs to plot 2D partial dep

Actions: Compute

Job

Run Time 00:00:01.18

Remaining Time 00:00:00.0

Type PartialDependence

Key pdp-095da293-aa8d-442f-8984-8523b2692a02

Description PartialDependence

Status DONE

Progress 100%

Done.

Actions View

CS

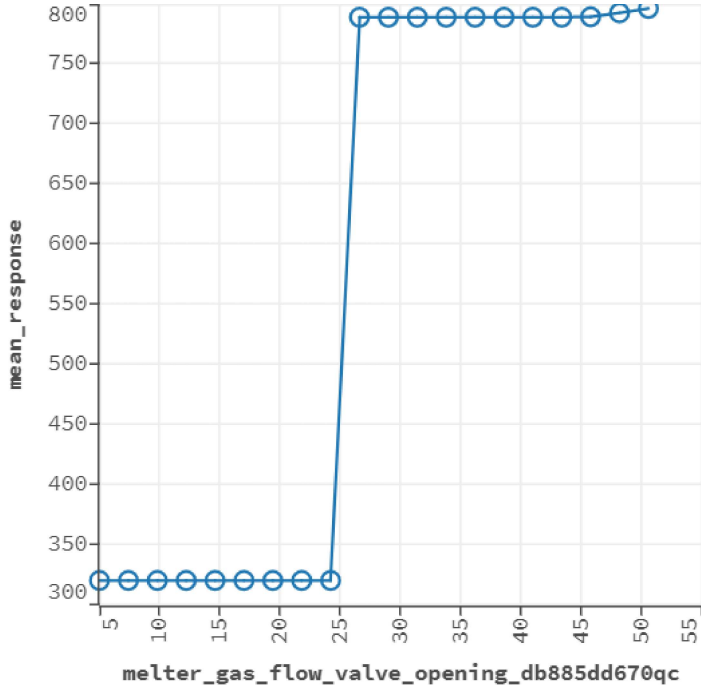
Partial Dependence Summary

Model ID: DRF_1_AutoML_1_20220526_233942

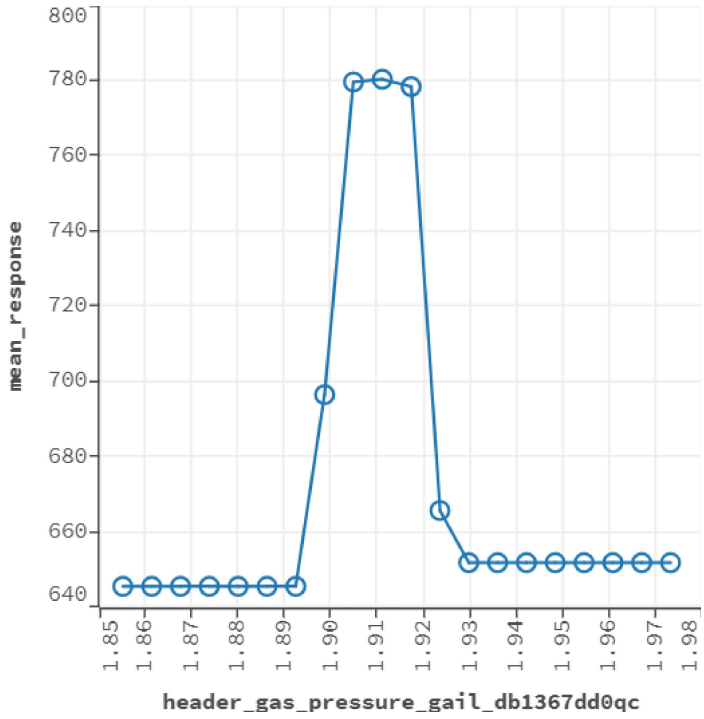
Frame ID: frame_0.750

Show PDP Data Table? ☐

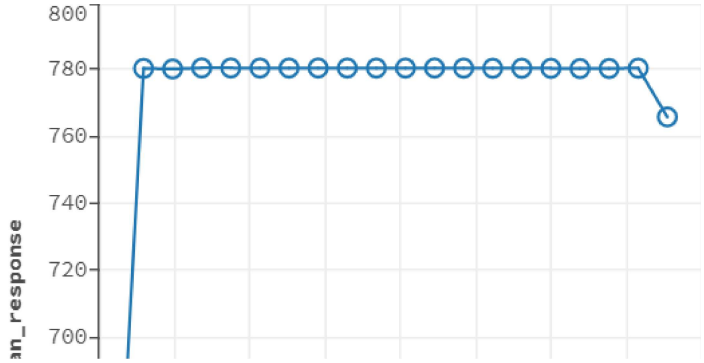
▾ PARTIAL DEPENDENCE PLOT OF MODEL DRF_1_AUTOML_1_20220526_233942 ON COLUMN 'MELTER GAS FLOW VALVE OPENING_DB885,DD670,QC'.

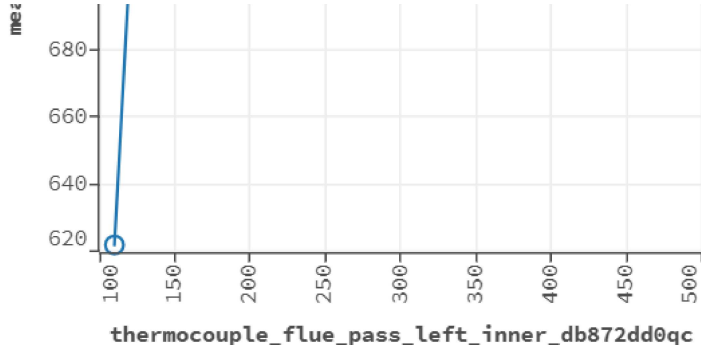


▾ PARTIAL DEPENDENCE PLOT OF MODEL DRF_1_AUTOML_1_20220526_233942 ON COLUMN 'HEADER GAS PRESSURE -GAIL_DB1367,DD0,QC'.



▾ PARTIAL DEPENDENCE PLOT OF MODEL DRF_1_AUTOML_1_20220526_233942 ON COLUMN 'THERMOCOUPLE FLUE PASS LEFT INNER _DB872,DD0,QC'.

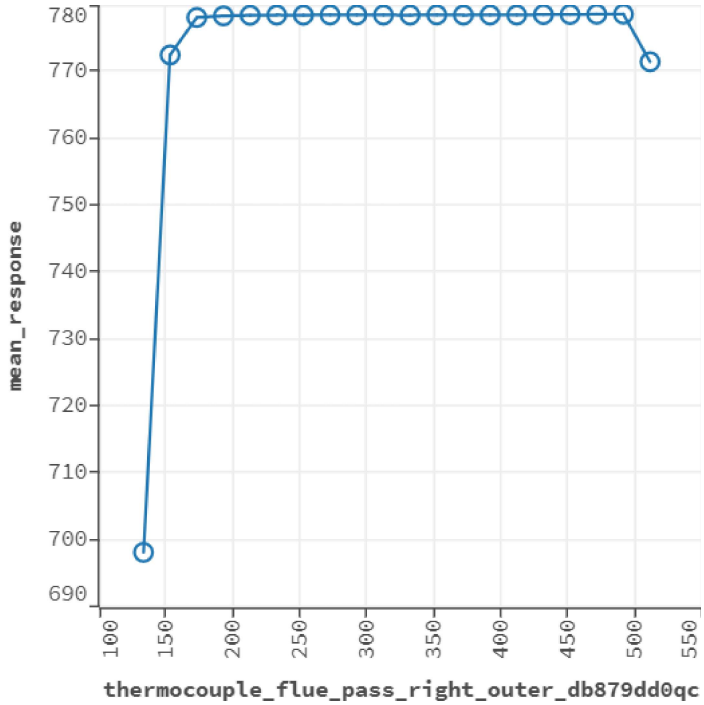




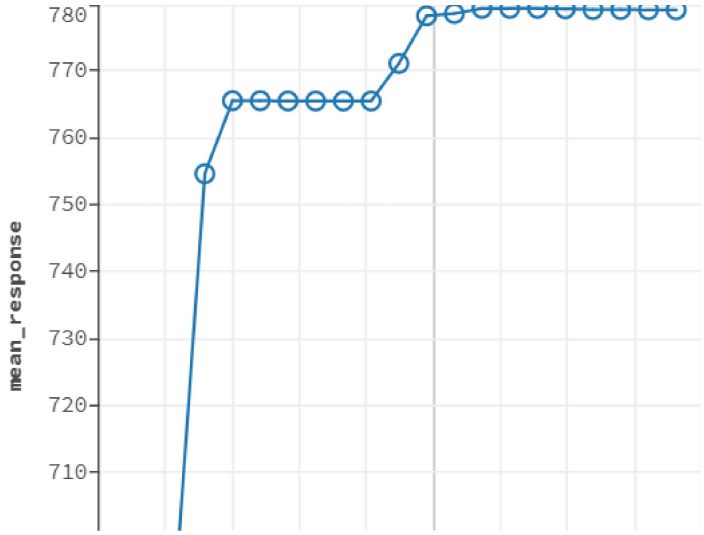
▸ PARTIAL DEPENDENCE PLOT OF MODEL DRF_1_AUTOML_1_20220526_233942 ON COLUMN 'THERMOCOUPLE FLUE PASS LEFT OUTER _DB874,DD0,QC'.

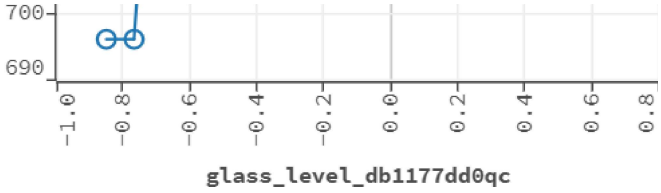
▸ PARTIAL DEPENDENCE PLOT OF MODEL DRF_1_AUTOML_1_20220526_233942 ON COLUMN 'THERMOCOUPLE FLUE PASS RIGHT INNER _DB876,DD0,QC'.

▾ PARTIAL DEPENDENCE PLOT OF MODEL DRF_1_AUTOML_1_20220526_233942 ON COLUMN 'THERMOCOUPLE FLUE PASS RIGHT OUTER _DB879,DD0,QC'.

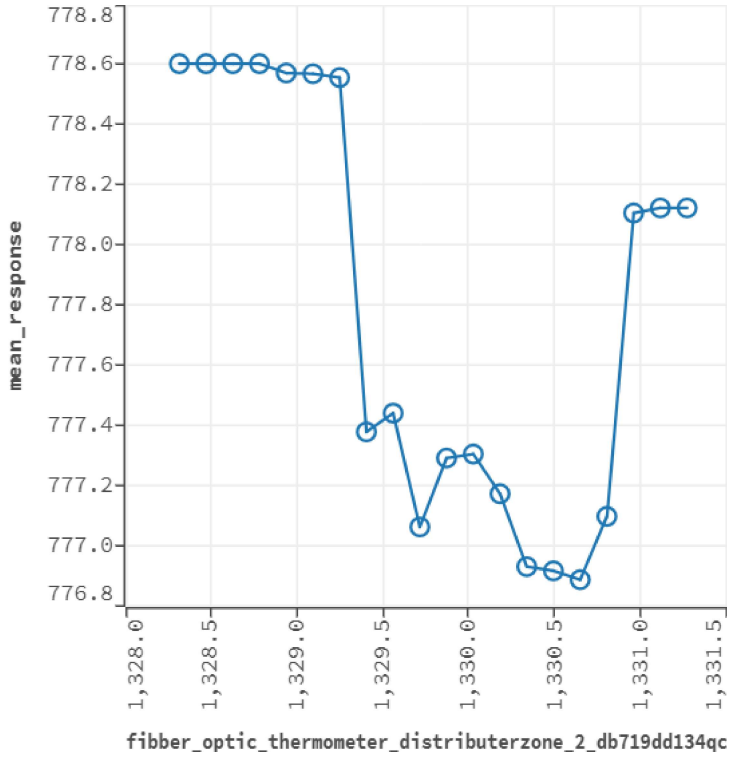


▾ PARTIAL DEPENDENCE PLOT OF MODEL DRF_1_AUTOML_1_20220526_233942 ON COLUMN 'GLASS LEVEL_DB1177,DD0,QC'.

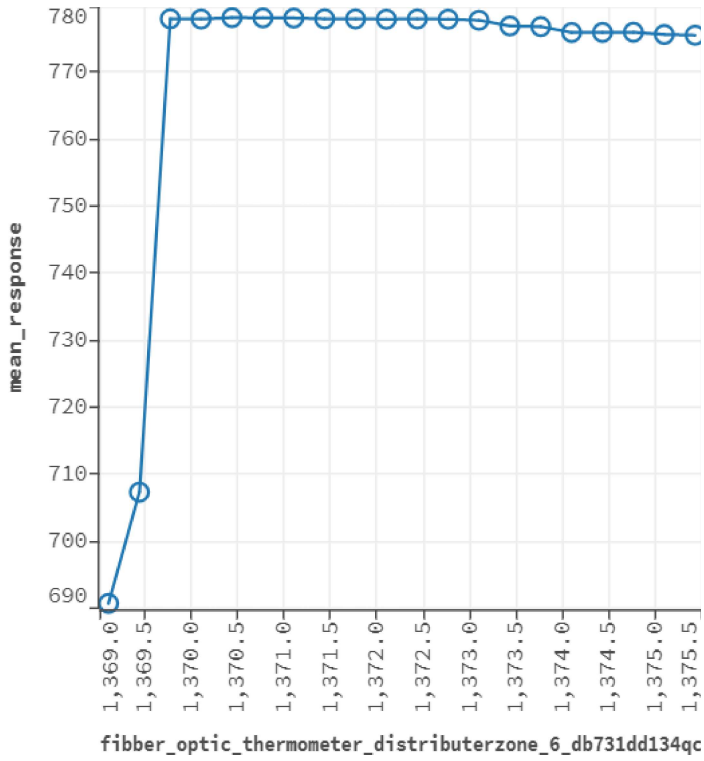




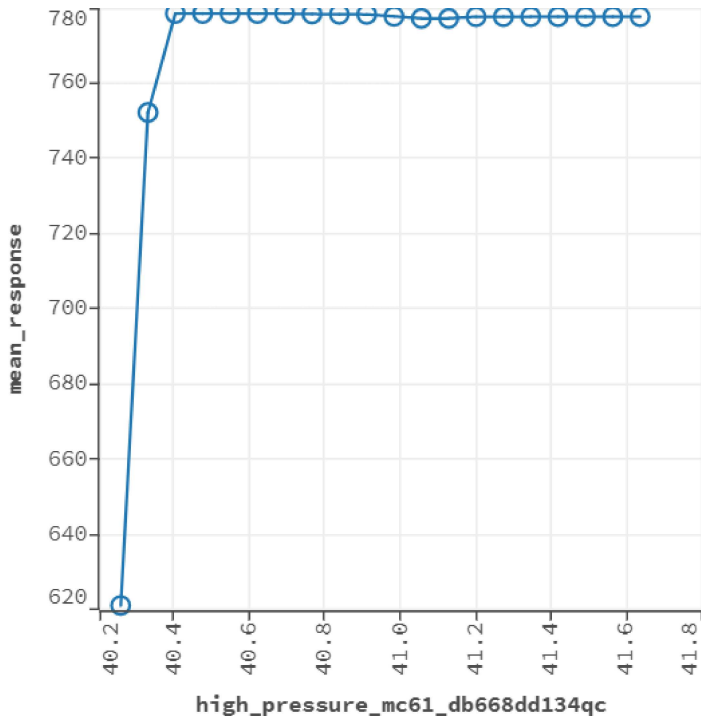
▾ PARTIAL DEPENDENCE PLOT OF MODEL DRF_1_AUTOML_1_20220526_233942 ON COLUMN 'FIBBER OPTIC THERMOMETER -DISTRIBUTER-ZONE -2_DB719,DD134,QC'.



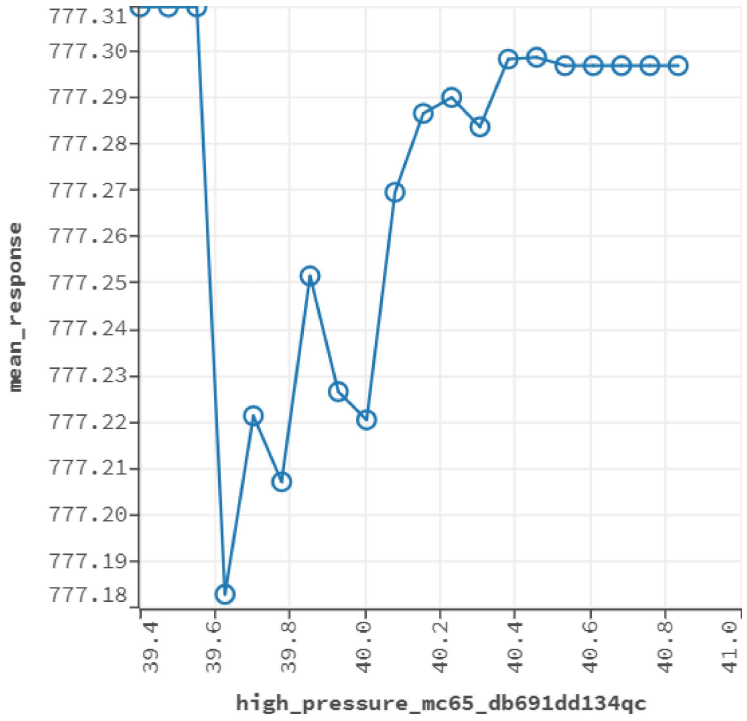
▾ PARTIAL DEPENDENCE PLOT OF MODEL DRF_1_AUTOML_1_20220526_233942 ON COLUMN 'FIBBER OPTIC THERMOMETER -DISTRIBUTER-ZONE -6_DB731,DD134,QC'.



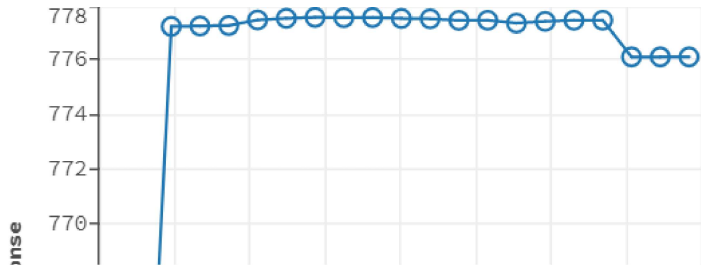
▾ PARTIAL DEPENDENCE PLOT OF MODEL DRF_1_AUTOML_1_20220526_233942 ON COLUMN 'HIGH PRESSURE M/C-61_DB668,DD134,QC'.

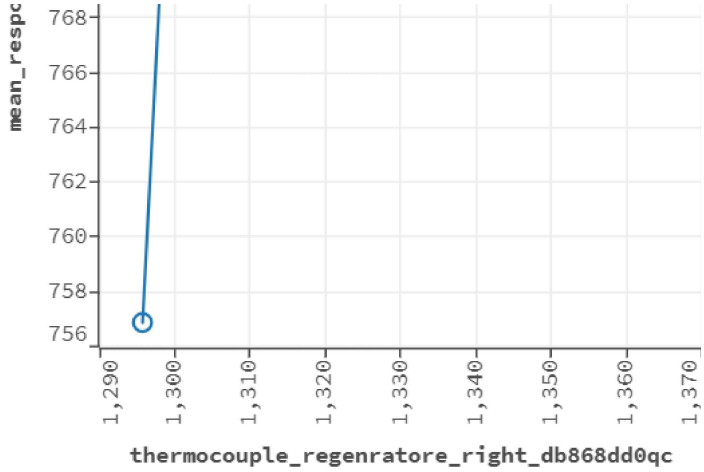


▾ PARTIAL DEPENDENCE PLOT OF MODEL DRF_1_AUTOML_1_20220526_233942 ON COLUMN 'HIGH PRESSURE M/C-65_DB691,DD134,QC'.

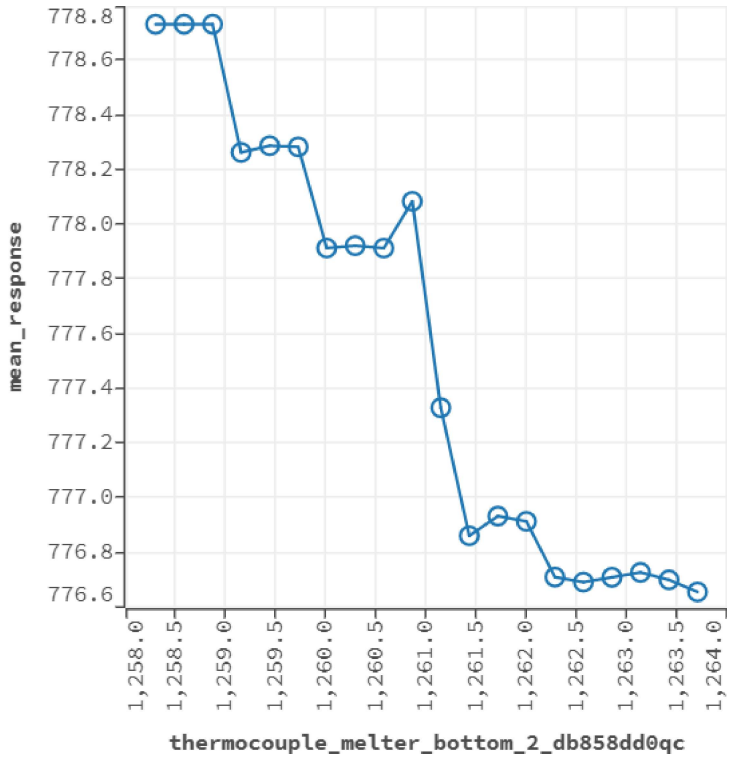


▾ PARTIAL DEPENDENCE PLOT OF MODEL DRF_1_AUTOML_1_20220526_233942 ON COLUMN 'THERMOCOUPLE REGENRATORE RIGHT_DB868,DD0,QC'.

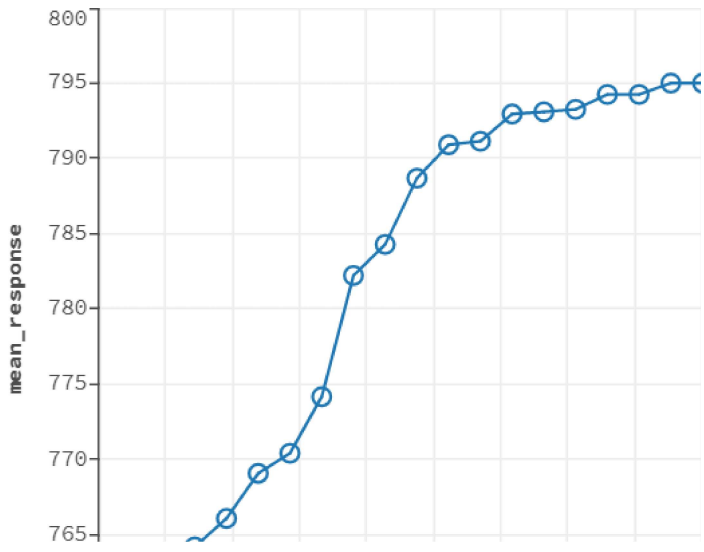


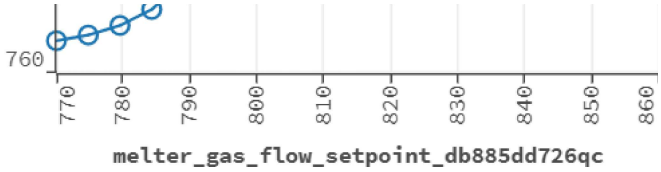


▾ PARTIAL DEPENDENCE PLOT OF MODEL DRF_1_AUTOML_1_20220526_233942 ON COLUMN 'THERMOCOUPLE MELTER BOTTOM -2_DB858,DD0,QC'.

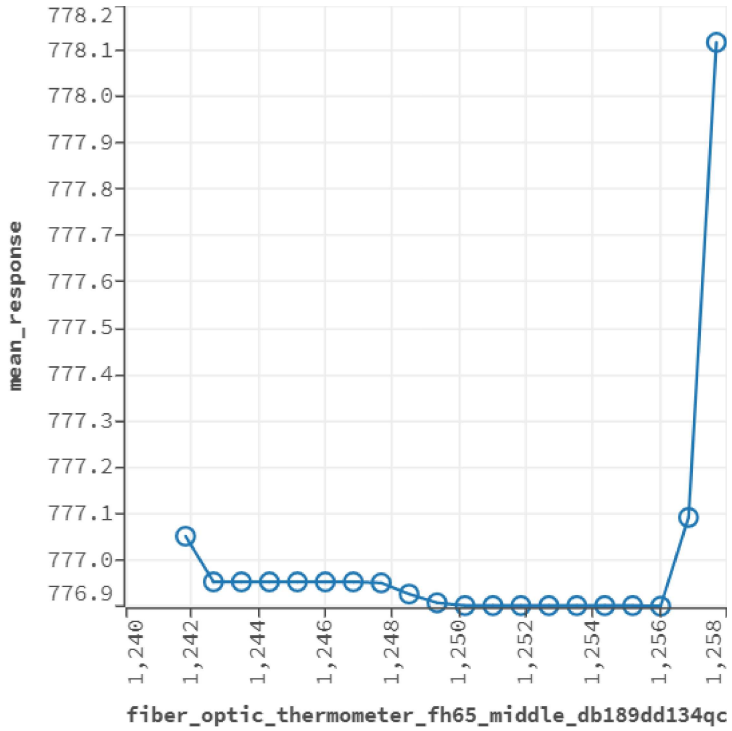


▾ PARTIAL DEPENDENCE PLOT OF MODEL DRF_1_AUTOML_1_20220526_233942 ON COLUMN 'MELTER GAS FLOW SETPOINT _DB885,DD726,QC'.

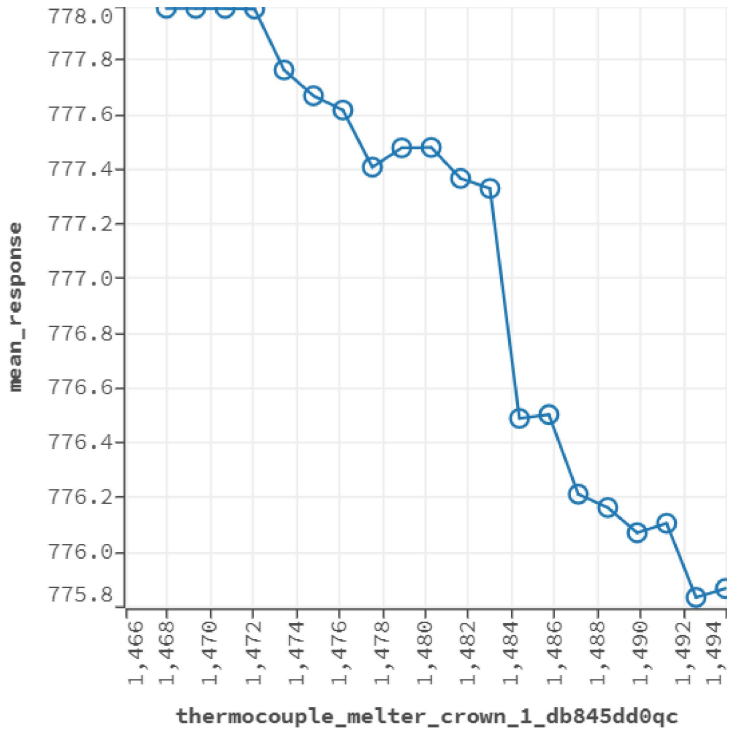




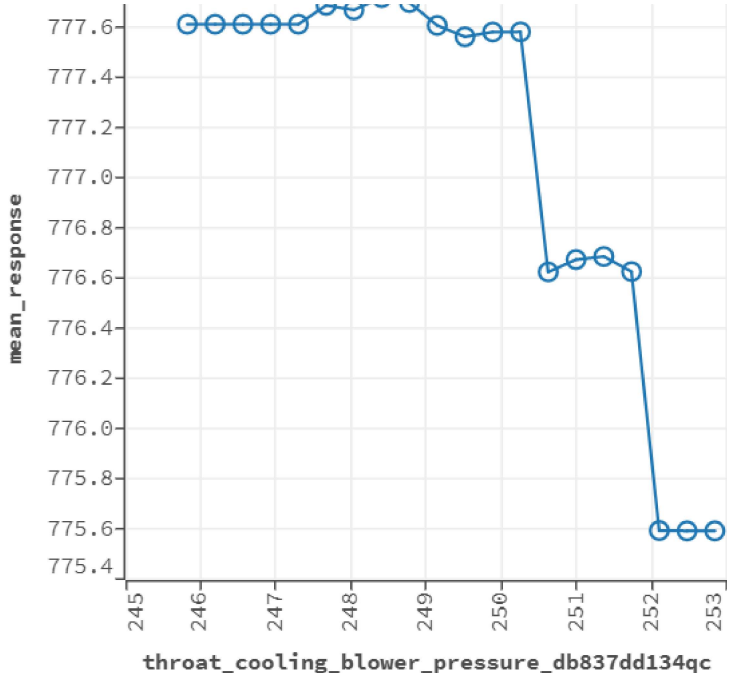
▾ PARTIAL DEPENDENCE PLOT OF MODEL DRF_1_AUTOML_1_20220526_233942 ON COLUMN 'FIBER OPTIC THERMOMETER -F/H65- MIDDLE_DB189,DD134,QC'.



▾ PARTIAL DEPENDENCE PLOT OF MODEL DRF_1_AUTOML_1_20220526_233942 ON COLUMN 'THERMOCOUPLE MELTER CROWN -1_DB845,DD0,QC'.



▾ PARTIAL DEPENDENCE PLOT OF MODEL DRF_1_AUTOML_1_20220526_233942 ON COLUMN 'THROAT COOLING BLOWER PRESSURE _DB837,DD134,QC'.


777.6
777.4
777.2
777.0
776.8
776.6
776.4
776.2
776.0
775.8
775.6
775.4
mean_response
245
246
247
248
249
250
251
252
253
throat_cooling_blower_pressure_db837dd134qc