Untitled Flow

Assistance

Routine Description

importFiles Import file(s) into H₂O

■ importSqlTable Import SQL table into H₂O

■ getFrames Get a list of frames in H₂O

X splitFrame Split a frame into two or more frames

mergeFrames Merge two frames into one
 getModels Get a list of models in H₂O

■ getGrids Get a list of grid search results in H₂O

 \P getPredictions Get a list of predictions in H_2O

≡ getJobs Get a list of jobs running in H₂O

runAutoML Automatically train and tune many models

buildModel Build a model

importModel Import a saved modelpredict Make a prediction

(Import Files

Search: /Users/kevin/Desktop/Northwestern/SWC-Haoyang Han/Week_2,

Search Results: Found 5 files: Add all

+ /Users/kevin/Desktop/Northwestern/SWC-Haoyang

Han/Week_2/part_sat_dataset.csv

+ /Users/kevin/Desktop/Northwestern/SWC-Haoyang

Han/Week_2/metric.csv

+ /Users/kevin/Desktop/Northwestern/SWC-Haoyang

Han/Week_2/full_sat_dataset.csv

 $\textcolor{red}{+} / Users/kevin/Desktop/Northwestern/SWC-Haoyang$

Han/Week_2/Define metric, feature engineering.ipynb

Selected Files: 1 file selected: Clear All

Q

★ /Users/kevin/Desktop/Northwestern/SWC-Haoyang Han/Week_2/h2o.csv

1 / 1 files imported.

Files / Users/kevin/Desktop/Northwestern/SWC-Haoyang Han/Week_2/h2o.csv

Actions Parse these files...

Setup Parse

PARSE CONFIGURATION

Sources nfs://Users/kevin/Desktop/Northwestern/SWC-Haoyang Han/Week_2/h2o.csv

ID h2o1.hex

Parser CSV \$

Separator ;: '044'

Column Headers

Auto

- First row contains column names
- First row contains data

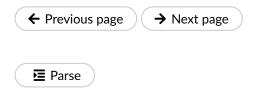
Options Enable single quotes as a field quotation character

Delete on done

EDIT COLUMN NAMES AND TYPES

Search by column name...

16	pseudorange	Numeric 🕏	849.5403442382809	-343.780670166016	-549.2731323
17	pseudorange	Numeric 💠	2.2125000953674303	0.0318000018596649	0.7879999876
18	has_ephemer	Numeric 🕏	1	0	1
19	has_almanac	Numeric 💠	0	0	Θ
20	azimuth_de{	Numeric 💠	158	278	147
21	elevation_c	Numeric 💠	14	29	18
22	metric_scor	Numeric 💠	10	70	20



₹ Job

Run Time 00:00:00.147

Remaining Time 00:00:00.0

Type Frame

Key Q h2o1.hex

Description Parse

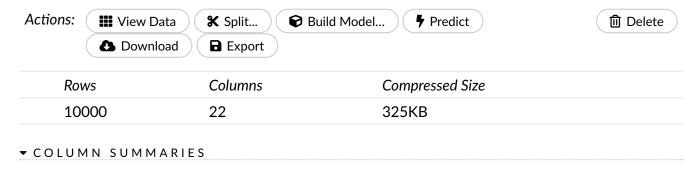
Status DONE

Progress 100%

Done.

Actions Q View

⊞ h2o1.hex



label	type	Missing	Zeros	+Inf	- Inf	min	max	
C1	int	0	1	0	0	0	9999.0	4999
svid	int	0	0	0	0	1.0	31.0	13
constellation	enum	0	255	0	0	0	3.0	-
in_fix	int	0	5	0	0	0	1.0	e
sync_state_flags	int	0	0	Θ	0	15.0	7183.0	141
sync_state_text	int	10000	0	0	0	•	•	
sat_time_1sigma_nanos	int	0	0	0	0	4.0	3476.0	62
rcvr_time_offset_nanos	int	0	10000	0	0	0	0	
multipath	int	0	10000	0	0	0	0	
has_carrier_freq	int	0	5	0	0	0	1.0	Œ
carrier_freq_hz	int	0	10000	0	0	0	0	

← Previous 20 Columns

→ Next 20 Columns

▶ CHUNK COMPRESSION SUMMARY

▶ FRAME DISTRIBUTION SUMMARY

X Split Frame

Frame: (Select) \$

Splits: Ratio Key

0.75 frame_0.750 ×

0.250 frame_0.250

Add a new split

Seed: 911262

X Create

Frame not specified.

ect an algorithm: Distributed Ranc	dom Forest 🔷 🗘
A R A M E T E R S	
model_id	drf-ddb53fc2-2d7e-442c-87e3-c5b86e1024ec
training_frame	h2o1.hex
validation_frame	h2o1.hex
nfolds	5
response_column	metric_score •
ignored_columns	Search
	☑ All ☐ None
	Only show columns with more than 0 % missing values.
ignore_const_cols	
ntrees	50

max_depth	20
min_rows	1
, .	
nbins	20
,	
seed	-1
mtries	-1
samnle rate	0.6320000290870667
3umple_rute	0.0320000270870007
Λ D V Λ Λ C E D	
ADVANCED	
A D V A N C E D score_each_iteration	
score_each_iteration score_tree_interval	0
score_each_iteration	0
score_each_iteration score_tree_interval	0
score_each_iteration score_tree_interval	0
score_each_iteration score_tree_interval	0
score_each_iteration score_tree_interval fold_assignment	AUTO *
score_each_iteration score_tree_interval fold_assignment	0
score_each_iteration score_tree_interval fold_assignment	AUTO *
score_each_iteration score_tree_interval fold_assignment offset_column	AUTO *

nbins_top_level	1024
nbins_cats	1024
r2_stopping	1.7976931348623157e+308
stopping_rounds	0

stopping_metric MSE

	Stopping metric is ignored for _stopping_rounds=0.
stopping_tolerance	0.001
max_runtime_secs	0
checkpoint	
col_sample_rate_per_tree	1
min_split_improvement	0.00001
mm_spme_mprovement	0.00001
histogram_type	AUTO \$
categorical_encoding	AUTO \$
distribution	AUTO \$
custom_metric_func	
export_checkpoints_dir	
EXPERT	
keep_cross_validation_models	
Koop_oress_vanadaten_medels	
keep_cross_validation_predictions	
keep_cross_validation_fold_assignment	
-	
build_tree_one_node	

sample_rate_per_class	
binomial_double_trees	
col_sample_rate_change_per_level	1
calibrate_model	
calibration_frame	(Choose)

⊞ Build Model

₹ Job

Run Time 00:00:09.46

Remaining Time 00:00:00.0

Type Model

Key Q drf-ddb53fc2-2d7e-442c-87e3-c5b86e1024ec

Description DRF

Status DONE

Progress 100%

Done.

Actions Q View

cs Model

Model ID: drf-ddb53fc2-2d7e-442c-87e3-c5b86e1024ec

Algorithm: Distributed Random Forest

Actions: Refresh Predict... Download POJO

▲ Download Model Deployment Package (MOJO)

■ Export

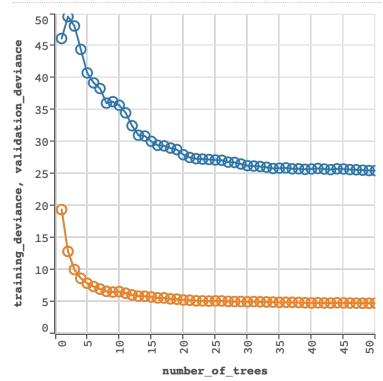
≡ Inspect

🗓 Delete

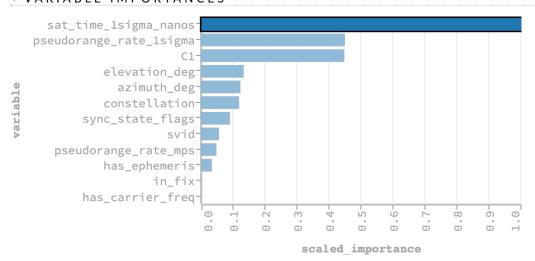
▲ Download Gen Model

▶ MODEL PARAMETERS

▼ SCORING HISTORY - DEVIANCE



▼ VARIABLE IMPORTANCES



Selected mark(s):

variable
relative_importance
scaled_importance
percentage

▶ OUTPUT

▶ OUTPUT - MODE	LSUMMARY
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DUTPUT	- SCORING H	ISTORY			
2019-01- 17 13:58:34	7.300 sec	22	5.2283	2.3061	27.3349
2019-01- 17 13:58:34	7.348 sec	23	5.2217	2.3012	27.2662
2019-01- 17 13:58:34	7.399 sec	24	5.2165	2.3013	27.2116
2019-01- 17 13:58:34	7.448 sec	25	5.2093	2.3061	27.1367
2019-01- 17 13:58:34	7.505 sec	26	5.2047	2.3090	27.0890
2019-01- L7 L3:58:34	7.557 sec	27	5.1772	2.2998	26.8035
2019-01- .7 .3:58:34	7.615 sec	28	5.1722	2.2921	26.7516
.7 .3:58:34	7.671 sec	29	5.1480	2.2822	26.5020
2019-01- .7 .3:58:34	7.728 sec	30	5.1234	2.2755	26.2495

- OUTPUT TRAINING_METRICS
- ▶ OUTPUT VALIDATION_METRICS
- ▶ OUTPUT CROSS_VALIDATION_METRICS
- ▶ OUTPUT CROSS-VALIDATION METRICS SUMMARY
- ▼ OUTPUT VARIABLE IMPORTANCES

variable	relative_importance	scaled_importance	percentage
sat_time_1sigma_nanos	73680792.0	1.0	0.4018
pseudorange_rate_1sigma	33020176.0	0.4482	0.1801
C1	32871958.0	0.4461	0.1793
elevation_deg	9721174.0	0.1319	0.0530
azimuth_deg	8950501.0	0.1215	0.0488
constellation	8643897.0	0.1173	0.0471
sync_state_flags	6544614.5000	0.0888	0.0357
svid	4030777.2500	0.0547	0.0220
pseudorange_rate_mps	3439622.7500	0.0467	0.0188
has_ephemeris	2380973.5000	0.0323	0.0130
in_fix	49703.5352	0.0007	0.0003
has_carrier_freq	40667.3047	0.0006	0.0002

▼ PREVIEW POJO

</>
Preview POJO