

Homework_Regression 1_Use

CS

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Assistance

Routine	Description
importFiles	Import file(s) into H ₂ O
importSqlTable	Import SQL table into H ₂ O
getFrames	Get a list of frames in H ₂ O
splitFrame	Split a frame into two or more frames
mergeFrames	Merge two frames into one
getModels	Get a list of models in H ₂ O
getGrids	Get a list of grid search results in H ₂ O
getPredictions	Get a list of predictions in H ₂ O
getJobs	Get a list of jobs running in H ₂ O
runAutoML	Automatically train and tune many models
buildModel	Build a model
importModel	Import a saved model
predict	Make a prediction

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Import Files

Search: /Users/pearlpatelli/Desktop/dataset_regression_car_prices.csv



Search Results: (All files added)

Selected Files: 1 file selected: Clear All

X /Users/pearlpatelli/Desktop/dataset_regression_car_prices.csv

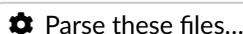
Actions:



Cloud icon 1 / 1 files imported.

Files /Users/pearlpatelli/Desktop/dataset_regression_car_prices.csv

Actions



Setup Parse

PARSE CONFIGURATION

Sources  nfs://Users/pearlpatelli/Desktop/dataset_regression_car_prices.csv

ID dataset_regression_car_prices.hex

Parser CSV

Separator `,`: '044'

Escape Character 0

Column Headers First row contains column names
 Auto
 First row contains data

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

EDIT COLUMN NAMES AND TYPES

1	car_Name	Enum	ritz	sx4	ciaz	wagon	swift	vitara	ciaz	brezza	elantra
2	year	Numeric	2014	2013	2017	2011	2014	2018	2015	2016	2012
3	selling_price	Numeric	3.35	4.75	7.25	2.85	4.6	9.25	6.75	8.12	5.88
4	present_price	Numeric	5.59	9.54	9.85	4.15	6.87	9.83	8.12	10.25	7.5
5	kms_driven	Numeric	27000	43000	6900	5200	42450	2071	18796	30000	25000
6	fuel_type	Enum	Petrol	Diesel	Petrol	Petrol	Diesel	Diesel	Petrol	Diesel	Petrol
7	seller_type	Enum	Dealer								
8	transmission	Enum	Manual								
9	owner	Numeric	0	0	0	0	0	0	0	0	0

[← Previous page](#)[→ Next page](#)
[Parse](#)

Job

Run Time 00:00:00.459

Remaining Time 00:00:00.0

Type Frame

Key dataset_regression_car_prices.hex

Description Parse

Status DONE

Progress 100%

Done.

Actions View

dataset_regression_car_prices.hex

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

Rows	Columns	Compressed Size
301	9	16KB

COLUMN SUMMARIES

label	type	Missing	Zeros	+Inf	-Inf	min	max	mean	sigma	ca
car_Name	enum	0	1	0	0	0	97.0	.	.	.
year	int	0	0	0	0	2003.0	2018.0	2013.6279	2.8916	
selling_price	real	0	0	0	0	0.1000	35.0	4.6613	5.0828	
present_price	real	0	0	0	0	0.3200	92.6000	7.6285	8.6441	
kms_driven	int	0	0	0	0	500.0	500000.0	36947.2060	38886.8839	
fuel_type	enum	0	2	0	0	0	2.0	.	.	.
seller_type	enum	0	195	0	0	0	1.0	0.3522	0.4784	
transmission	enum	0	40	0	0	0	1.0	0.8671	0.3400	
owner	int	0	290	0	0	0	3.0	0.0432	0.2479	

[← Previous 20 Columns](#)[→ Next 20 Columns](#)**► CHUNK COMPRESSION SUMMARY****► FRAME DISTRIBUTION SUMMARY****Run AutoML****PARAMETERS***project_name**distribution*

AUTO

*training_frame**

dataset_regression_car_prices.hex

*response_column**

selling_price

validation_frame

(Choose...)

blending_frame

(Choose...)

leaderboard_frame

(Choose...)

A D V A N C E D*nfold*s -1*balance_classes* *custom_metric_func**fold_column* *weights_column* *ignored_columns*

<input checked="" type="checkbox"/> car_Name	ENUM(98)
<input type="checkbox"/> year	INT
<input type="checkbox"/> selling_price	REAL
<input type="checkbox"/> present_price	REAL
<input type="checkbox"/> kms_driven	INT
<input type="checkbox"/> fuel_type	ENUM(3)
<input type="checkbox"/> seller_type	ENUM(2)
<input type="checkbox"/> transmission	ENUM(2)
<input type="checkbox"/> owner	INT

 All None

Only show columns with more than _____ % missing values.

sort_metric *seed* 1234

max_models 0

max_runtime_secs 0

max_runtime_secs_per_model 0

stopping_rounds 3

stopping_metric AUTO

stopping_tolerance -1

exclude_algos

GLM
 DRF
 GBM
 DeepLearning
 StackedEnsemble
 XGBoost

All None

exploitation_ratio -1

monotone_constraints ↔ +

EXPERT

keep_cross_validation_predictions

keep_cross_validation_models

keep_cross_validation_fold_assignment

export_checkpoints_dir

 Build Models

Job

Run Time 01:00:01.897

Remaining Time 00:00:00.0

Type AutoML

Key  AutoML_2_20260207_73027@@selling_price

Description AutoML build

Status DONE

Progress 100%

Done.

Actions  View

Leaderboard

 Monitor Live

▼ MODELS

models sorted in order of rmse, best first

	<i>model_id</i>	<i>rmse</i>	<i>mse</i>
0	DeepLearning_grid_1_AutoML_2_20260207_73027_model_11	0.858368057346554	0.73671
1	DeepLearning_grid_1_AutoML_2_20260207_73027_model_26	0.9029458983491231	0.81531
2	StackedEnsemble_BestOfFamily_4_AutoML_2_20260207_73027	0.9040401261231578	0.81721
3	DeepLearning_grid_2_AutoML_2_20260207_73027_model_4	0.9157486710550706	0.83851
4	DeepLearning_grid_1_AutoML_2_20260207_73027_model_9	0.9269266047355292	0.85911
5	DeepLearning_grid_3_AutoML_2_20260207_73027_model_4	0.9421102899878816	0.88751
6	DeepLearning_grid_1_AutoML_2_20260207_73027_model_21	0.9768917574385103	0.95431
7	DeepLearning_grid_1_AutoML_2_20260207_73027_model_17	0.9777523889625872	0.95591
8	DeepLearning_grid_1_AutoML_2_20260207_73027_model_20	0.981975134577053	0.96421
9	DeepLearning_grid_1_AutoML_2_20260207_73027_model_2	1.0145300286118157	1.02921
10	DeepLearning_grid_1_AutoML_2_20260207_73027_model_22	1.0209428360288055	1.04231
11	DeepLearning_grid_1_AutoML_2_20260207_73027_model_5	1.0491695202789144	1.10071
12	DeepLearning_grid_1_AutoML_2_20260207_73027_model_4	1.0525405388154125	1.10781
13	DeepLearning_grid_1_AutoML_2_20260207_73027_model_16	1.056491670770874	1.11611
14	DeepLearning_grid_1_AutoML_2_20260207_73027_model_24	1.098766190247261	1.20721

15	DeepLearning_grid_1_AutoML_2_20260207_73027_model_1	1.0995634987523184	1.2090
16	DeepLearning_grid_1_AutoML_2_20260207_73027_model_23	1.1034189370483054	1.2175
17	DeepLearning_grid_1_AutoML_2_20260207_73027_model_10	1.1107228686028463	1.2337
18	DeepLearning_grid_2_AutoML_2_20260207_73027_model_1	1.1243900471157542	1.2642
19	DeepLearning_grid_1_AutoML_2_20260207_73027_model_19	1.1264052285774329	1.2687
20	DeepLearning_grid_1_AutoML_2_20260207_73027_model_18	1.138161335976187	1.2954
21	DeepLearning_grid_1_AutoML_2_20260207_73027_model_25	1.143434821752001	1.3074
22	DeepLearning_grid_1_AutoML_2_20260207_73027_model_15	1.1472093546947448	1.3160
23	DeepLearning_grid_1_AutoML_2_20260207_73027_model_8	1.1484582367994756	1.3189

▼ EVENT LOG

Actions taken and discoveries made by AutoML

	timestamp	level	stage	message
0	07:30:27.913	INFO	Workflow	Project: AutoML_2_20260207_73027
1	07:30:27.917	INFO	Validation	5-fold cross-validation will be used.
2	07:30:27.918	INFO	Validation	User didn't set any runtime constraints (max r using default 1h time limit)
3	07:30:27.920	INFO	Validation	Setting stopping tolerance adaptively based on 0.05
4	07:30:27.920	INFO	Validation	Build control seed: 1234
				training frame: Frame key:
5	07:30:27.925	INFO	DataImport	AutoML_2_20260207_73027_training_dataset_regr cols: 9 rows: 301 chunks: 1 size: 16217 checks
6	07:30:27.925	INFO	DataImport	validation frame: NULL
7	07:30:27.925	INFO	DataImport	leaderboard frame: NULL
8	07:30:27.925	INFO	DataImport	blending frame: NULL
9	07:30:27.925	INFO	DataImport	response column: selling_price
10	07:30:27.925	INFO	DataImport	fold column: null
11	07:30:27.925	INFO	DataImport	weights column: null
				Loading execution steps: [{XGBoost : [def_2 (1 10w), def_3 (3g, 10w), grid_1 (4g, 90w), lr_se : [def_1 (1g, 10w)]}, {DRAFT : [def_1 (2g, 10w), : [def_5 (1g, 10w), def_2 (2g, 10w), def_3 (2g 10w), def_1 (3g, 10w), grid_1 (4g, 60w), lr_an {DeepLearning : [def_1 (3g, 10w), grid_1 (4g, grid_3 (5g, 30w)]}, {completion : [resume_best {StackedEnsemble : [best_of_family_1 (1g, 5w), 5w), best_of_family_3 (3g, 5w), best_of_family best_of_family_5 (5g, 5w), all_2 (2g, 10w), al (4g, 10w), all_5 (5g, 10w), monotonic (6g, 10w
12	07:30:27.950	INFO	Workflow	