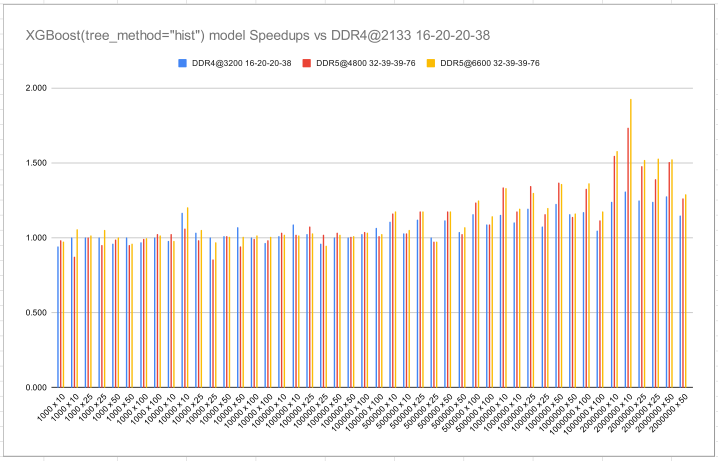
This spreadsheet contains training runtime comparisons of multiple regression models as implemented by this repo https://github.com/Ludecan/ml_benchmark	
The sheets contents are:	
DDR4@3200 16-20-20-38 v0.1.0 reduced dataset	Benchmark results using release v0.1.0 and the mentioned ram configuration. This version used a reduced number of datasets
DDR4@2133 16-20-20-38 v0.1.0 reduced dataset	Benchmark results using release v0.1.0 and the mentioned ram configuration. This version used a reduced number of datasets
DDR5@6600 32-39-39-76 v0.1.0	Benchmark results using release v0.1.0 and the mentioned ram configuration. Sheets since this one use an extended number of datasets with more rows x columns configurations
DDR5@4800 32-39-39-76 v0.1.0	Benchmark results using release v0.1.0 and the mentioned ram configuration.
DDR4@3200 16-20-20-38 v0.1.0	Benchmark results using release v0.1.0 and the mentioned ram configuration.
DDR4@2133 16-20-20-38 v0.1.0	Benchmark results using release v0.1.0 and the mentioned ram configuration.
DDR5@6600 32-39-39-76 v0.2.0	Benchmark results using release v0.2.0 with updated package versions
Speedups	Summary sheet comparing training runtimes for each model and dataset size across the different RAM speeds
RMSEs	Summary sheet comparing RMSE achieved by each model for each dataset size. When looking at these, please consider the caveats mentioned in the repo's README.md

Model	Dataset	Rows	Columns	RMSE
Linear Regression	2000000 x 50	2000000	50	1899509.51
Random Forest(n_jobs=-1)	2000000 x 50	2000000	50	1357603.39
XGBoost	2000000 x 50	2000000	50	569121.92
XGBoost(tree_method="hist")	2000000 x 50	2000000	50	566936.96
LightGBM	2000000 x 50	2000000	50	1040379.42
CatBoost	2000000 x 50	2000000	50	111218.33
TabNet(device_name="cpu")	2000000 x 50	2000000	50	inf
AutoGluon	2000000 x 50	2000000	50	39333.59
TFDecisionForest	2000000 x 50	2000000	50	1673794.86

Model	Dataset	Rows	Columns	DDR4@3200 16-20-20-38	DDR5@4800 32-39-39-76	DDR5@6600 32-39-39-76
Random Forest(n_jobs=-1)	1000 x 10	1000	10	0.941	0.985	0.975
XGBoost(tree_method="hist")	1000 x 10	1000	10	1.000	0.873	1.057
Random Forest(n_jobs=-1)	1000 x 25	1000	25	1.000	1.000	1.015
XGBoost(tree_method="hist")	1000 x 25	1000	25	1.000	0.951	1.051
Random Forest(n_jobs=-1)	1000 x 50	1000	50	0.958	0.989	1.002
XGBoost(tree_method="hist")	1000 x 50	1000	50	1.000	0.952	0.960
Random Forest(n_jobs=-1)	1000 x 100	1000	100	0.968	0.991	0.996
XGBoost(tree_method="hist")	1000 x 100	1000	100	1.000	1.023	1.017
Random Forest(n_jobs=-1)	10000 x 10	10000	10	0.977	1.026	0.981
XGBoost(tree_method="hist")	10000 x 10	10000	10	1.167	1.059	1.205
Random Forest(n_jobs=-1)	10000 x 25	10000	25	1.036	0.982	1.054
XGBoost(tree_method="hist")	10000 x 25	10000	25	1.000	0.854	0.968
Random Forest(n_jobs=-1)	10000 x 50	10000	50	1.013	1.011	1.005
XGBoost(tree_method="hist")	10000 x 50	10000	50	1.071	0.941	1.008
Random Forest(n_jobs=-1)	10000 x 100	10000	100	1.003	0.994	1.015
XGBoost(tree_method="hist")	10000 x 100	10000	100	0.963	0.985	1.005
Random Forest(n_jobs=-1)	100000 x 10	100000	10	1.011	1.034	1.020
XGBoost(tree_method="hist")	100000 x 10	100000	10	1.091	1.020	1.017
Random Forest(n_jobs=-1)	100000 x 25	100000	25	1.024	1.073	1.028
XGBoost(tree_method="hist")	100000 x 25	100000	25	0.958	1.021	0.948
Random Forest(n_jobs=-1)	100000 x 50	100000	50	1.000	1.033	1.021
XGBoost(tree_method="hist")	100000 x 50	100000	50	1.000	1.008	1.010
Random Forest(n_jobs=-1)	100000 x 100	100000	100	1.023	1.039	1.035
XGBoost(tree_method="hist")	100000 x 100	100000	100	1.067	1.009	1.023
Random Forest(n_jobs=-1)	500000 x 10	500000	10	1.107	1.162	1.177
XGBoost(tree_method="hist")	500000 x 10	500000	10	1.029	1.027	1.054
Random Forest(n_jobs=-1)	500000 x 25	500000	25	1.121	1.174	1.177
XGBoost(tree_method="hist")	500000 x 25	500000	25	1.000	0.972	0.974
Random Forest(n_jobs=-1)	500000 x 50	500000	50	1.118	1.175	1.178
XGBoost(tree_method="hist")	500000 x 50	500000	50	1.038	1.026	1.072
Random Forest(n_jobs=-1)	500000 x 100	500000	100	1.157	1.237	1.247
XGBoost(tree_method="hist")	500000 x 100	500000	100	1.089	1.088	1.142
Random Forest(n_jobs=-1)	1000000 x 10	1000000	10	1.151	1.336	1.333
XGBoost(tree_method="hist")	1000000 x 10	1000000	10	1.103	1.174	1.194
Random Forest(n_jobs=-1)	1000000 x 25	1000000	25	1.195	1.344	1.302
XGBoost(tree_method="hist")	1000000 x 25	1000000	25	1.077	1.157	1.197
Random Forest(n_jobs=-1)	1000000 x 50	1000000	50	1.228	1.369	1.359
XGBoost(tree_method="hist")	1000000 x 50	1000000	50	1.156	1.137	1.164
Random Forest(n_jobs=-1)	1000000 x 100	1000000	100	1.170	1.325	1.364
XGBoost(tree_method="hist")	1000000 x 100	1000000	100	1.047	1.118	1.177
Random Forest(n_jobs=-1)	2000000 x 10	2000000	10	1.238	1.546	1.577
XGBoost(tree_method="hist")	2000000 x 10	2000000	10	1.307	1.733	1.929
Random Forest(n_jobs=-1)	2000000 x 25	2000000	25	1.251	1.477	1.521
XGBoost(tree_method="hist")	2000000 x 25	2000000	25	1.239	1.389	1.527
Random Forest(n_jobs=-1)	2000000 x 50	2000000	50	1.278	1.504	1.525
XGBoost(tree_method="hist")	2000000 x 50	2000000	50	1.147	1.263	1.290

Selected Model Random Forest(n_jobs=-1)



Model	Dataset	Rows	Columns	ME	RMSE	MAE	R2	Training Time (s)
Linear Regressio	1000 x 10	1000	10	78052.45	765303.53	622992.31	0.00	0.00
Random Forest(r	1000 x 10	1000	10	29652.69	425999.99	337029.55	0.69	0.17
XGBoost	1000 x 10	1000	10	4475.78	323691.35	255895.61	0.82	0.04
XGBoost(tree_m	1000 x 10	1000	10	4475.78	323691.35	255895.61	0.82	0.04
LightGBM	1000 x 10	1000	10	10037.01	282829.48	222443.89	0.86	0.05
CatBoost	1000 x 10	1000	10	-6672.11	158101.02	113465.73	0.96	0.88
TabNet(device_r	1000 x 10	1000	10	-1772190.00	1930544.40	1772190.00	-5.36	0.05
AutoGluon	1000 x 10	1000	10	9126.70	189074.27	144120.35	0.94	42.58
TFDecisionFores	1000 x 10	1000	10	42431.46	452736.24	363736.77	0.65	2.67
Linear Regressio	1000 x 25	1000	25	-136552.89	1365980.07	1115506.05	-0.06	0.00
Random Forest(r	1000 x 25	1000	25	-174053.52	1052035.03	851671.54	0.37	0.19
XGBoost	1000 x 25	1000	25	-182892.27	948136.69	766542.19	0.49	0.07
XGBoost(tree_m	1000 x 25	1000	25	-182892.27	948136.69	766542.19	0.49	0.07
LightGBM	1000 x 25	1000	25	-140657.26	777110.08	614409.59	0.66	0.05
CatBoost	1000 x 25	1000	25	-165450.92	607732.37	478205.93	0.79	1.00
TabNet(device_r	1000 x 25	1000	25	-5065835.09	5236598.12	5065835.09	-14.59	0.04
AutoGluon	1000 x 25	1000	25	-141929.31	647112.25	516165.24	0.76	38.97
TFDecisionFores	1000 x 25	1000	25	-146836.53	1071379.23	868233.45	0.35	0.38
Linear Regressio	1000 x 50	1000	50	-64135.18	2106516.49	1660066.38	-0.05	0.00
Random Forest(r	1000 x 50	1000	50	-141653.02	1795035.96	1430590.58	0.24	0.25
XGBoost	1000 x 50	1000	50	-173296.87	1769848.77	1457048.36	0.26	0.10
XGBoost(tree_m	1000 x 50	1000	50	-173296.87	1769848.77	1457048.36	0.26	0.10
LightGBM	1000 x 50	1000	50	-48544.05	1501315.08	1228523.29	0.47	0.06
CatBoost	1000 x 50	1000	50	-113237.49	1432735.79	1149575.35	0.51	1.02
TabNet(device_r	1000 x 50	1000	50	-10051102.50	10258734.60	10051102.50	-23.96	0.04
AutoGluon	1000 x 50	1000	50	-174059.78	1435270.48	1149887.67	0.51	40.29
TFDecisionFores	1000 x 50	1000	50	-100813.61	1790860.92	1418343.33	0.24	0.56
Linear Regressio	1000 x 100	1000	100	44447.19	3083084.41	2411708.88	-0.17	0.01
Random Forest(r	1000 x 100	1000	100	-78201.01	2705711.37	2101864.62	0.10	0.34
XGBoost	1000 x 100	1000	100	-222137.76	2794845.76	2213861.00	0.04	0.17
XGBoost(tree_m	1000 x 100	1000	100	-222137.76	2794845.76	2213861.00	0.04	0.17
LightGBM	1000 x 100	1000	100	-94347.12	2515421.26	1972377.71	0.22	0.09
CatBoost	1000 x 100	1000	100	-136525.60	2449299.13	1923970.44	0.26	1.39
TabNet(device_r	1000 x 100	1000	100	-20171222.10	20371856.20	20171222.10	-50.02	0.04
AutoGluon	1000 x 100	1000	100	-9856.34	2445119.50	1900571.99	0.27	48.74
TFDecisionFores	1000 x 100	1000	100	-45796.62	2658954.33	2057758.77	0.13	0.93
Linear Regressio	10000 x 10	10000	10	-32095.31	800013.85	637688.05	0.03	0.00
Random Forest(r	10000 x 10	10000	10	-29507.01	342054.76	250288.21	0.82	0.50
XGBoost	10000 x 10	10000	10	-10350.79	167316.77	120406.02	0.96	0.06
XGBoost(tree_m	10000 x 10	10000	10	-10350.79	167316.77	120406.02	0.96	0.06
LightGBM	10000 x 10	10000	10	-5690.22	192358.80	147103.63	0.94	0.06
CatBoost	10000 x 10	10000	10	-3224.82	51821.52	35443.43	1.00	1.30
TabNet(device_r	10000 x 10	10000	10	-1854878.89	2022458.63	1854878.89	-5.22	14.77
AutoGluon	10000 x 10	10000	10	-3809.27	41723.22	26834.35	1.00	68.37
TFDecisionFores	10000 x 10	10000	10	-24773.15	387457.29	297673.74	0.77	0.95
Linear Regressio	10000 x 25	10000	25	17694.35	1332299.29	1064897.72	0.02	0.00
Random Forest(r	10000 x 25	10000	25	-54034.14	932491.71	741658.76	0.52	1.10
XGBoost	10000 x 25	10000	25	-17874.69	499367.81	390007.48	0.86	0.09
XGBoost(tree_m	10000 x 25	10000	25	-17874.69	499367.81	390007.48	0.86	0.09
LightGBM	10000 x 25	10000	25	-11174.34	554389.48	432057.45	0.83	0.07
CatBoost	10000 x 25	10000	25	-7927.88	174113.60	133351.70	0.98	1.42
TabNet(device_r	10000 x 25	10000	25	-4863511.08	5045741.43	4863511.08	-13.09	15.88
AutoGluon	10000 x 25	10000	25	-10785.64	133519.42	100027.98	0.99	75.52
TFDecisionFores	10000 x 25	10000	25	-28726.24	1001901.09	801500.45	0.44	1.34

Model	Dataset	Rows	Columns	ME	RMSE	MAE	R2	Training Time (s)
Linear Regressio	10000 x 50	10000	50	81611.50	1930394.85	1546614.02	0.02	0.01
Random Forest(r	10000 x 50	10000	50	-27046.36	1569546.45	1255942.48	0.35	2.15
XGBoost	10000 x 50	10000	50	-41349.88	1073495.47	853466.45	0.70	0.16
XGBoost(tree_m	10000 x 50	10000	50	-41349.88	1073495.47	853466.45	0.70	0.15
LightGBM	10000 x 50	10000	50	26080.12	1081653.88	858024.93	0.69	0.09
CatBoost	10000 x 50	10000	50	3493.93	497360.62	391704.06	0.93	1.62
TabNet(device_r	10000 x 50	10000	50	-9910818.48	10100115.80	9910818.48	-25.93	17.56
AutoGluon	10000 x 50	10000	50	-11637.86	367731.67	287637.47	0.96	90.81
TFDecisionFores	10000 x 50	10000	50	-124.57	1644710.23	1314203.57	0.29	1.99
Linear Regressio	10000 x 100	10000	100	-78780.30	2648251.78	2105237.36	0.01	0.03
Random Forest(r	10000 x 100	10000	100	-205368.67	2380001.31	1888299.76	0.20	4.16
XGBoost	10000 x 100	10000	100	-174630.22	1986737.91	1568793.59	0.44	0.27
XGBoost(tree_m	10000 x 100	10000	100	-174630.22	1986737.91	1568793.59	0.44	0.27
LightGBM	10000 x 100	10000	100	-96209.96	1929041.25	1528217.23	0.47	0.14
CatBoost	10000 x 100	10000	100	-73650.44	1304251.27	1032409.35	0.76	2.23
TabNet(device_r	10000 x 100	10000	100	-20176568.40	20351450.20	20176568.40	-57.44	18.42
AutoGluon	10000 x 100	10000	100	-77282.73	1014729.35	801305.98	0.85	130.22
TFDecisionFores	10000 x 100	10000	100	-174799.24	2422780.79	1927027.68	0.17	3.33
Linear Regressio	100000 x 10	100000	10	10073.91	811926.86	649901.41	0.02	0.01
Random Forest(r	100000 x 10	100000	10	-16142.73	246525.58	177137.40	0.91	5.90
XGBoost	100000 x 10	100000	10	-919.35	105984.12	78264.84	0.98	0.11
XGBoost(tree_m	100000 x 10	100000	10	-919.35	105984.12	78264.84	0.98	0.12
LightGBM	100000 x 10	100000	10	639.86	160185.80	123825.13	0.96	0.12
CatBoost	100000 x 10	100000	10	-10.82	24461.18	18930.24	1.00	2.39
TabNet(device_r	100000 x 10	100000	10	-975664.09	1035231.91	975664.09	-0.59	160.23
AutoGluon	100000 x 10	100000	10	-482.64	13116.62	9832.86	1.00	159.20
TFDecisionFores	100000 x 10	100000	10	-3835.59	364736.17	289294.95	0.80	6.12
Linear Regressio	100000 x 25	100000	25	-9271.58	1336746.33	1067179.31	0.02	0.02
Random Forest(r	100000 x 25	100000	25	-62652.83	822278.45	643812.02	0.63	14.82
XGBoost	100000 x 25	100000	25	-6156.29	299279.14	233345.89	0.95	0.23
XGBoost(tree_m	100000 x 25	100000	25	-6156.29	299279.14	233345.89	0.95	0.24
LightGBM	100000 x 25	100000	25	-4101.46	500677.61	381122.69	0.86	0.17
CatBoost	100000 x 25	100000	25	-369.52	71564.01	56193.35	1.00	2.49
TabNet(device_r	100000 x 25	100000	25	-4080328.62	4275448.24	4080328.62	-9.06	170.90
AutoGluon	100000 x 25	100000	25	-518.66	32613.11	25410.03	1.00	207.81
TFDecisionFores	100000 x 25	100000	25	-32969.53	1010830.17	805254.57	0.44	9.86
Linear Regressio	100000 x 50	100000	50	7770.89	1908455.00	1522569.07	0.02	0.06
Random Forest(r	100000 x 50	100000	50	-85457.93	1472749.26	1168950.74	0.42	30.76
XGBoost	100000 x 50	100000	50	-15404.91	715277.97	568057.64	0.86	0.40
XGBoost(tree_m	100000 x 50	100000	50	-15404.91	715277.97	568057.64	0.86	0.40
LightGBM	100000 x 50	100000	50	-5747.75	1046493.31	825268.00	0.71	0.27
CatBoost	100000 x 50	100000	50	-2741.18	211049.85	167729.56	0.99	3.24
TabNet(device_r	100000 x 50	100000	50	-9189086.69	9386189.29	9189086.69	-22.72	182.37
AutoGluon	100000 x 50	100000	50	-2204.66	72803.88	57463.32	1.00	292.66
TFDecisionFores	100000 x 50	100000	50	-33392.98	1646711.69	1312107.43	0.27	16.16
Linear Regressio	100000 x 100	100000	100	6964.07	2696942.66	2156090.86	0.02	0.18
Random Forest(r	100000 x 100	100000	100	-106316.33	2350451.23	1877387.76	0.25	60.68
XGBoost	100000 x 100	100000	100	-18088.28	1558882.95	1244986.11	0.67	0.74
XGBoost(tree_m	100000 x 100	100000	100	-18088.28	1558882.95	1244986.11	0.67	0.77
LightGBM	100000 x 100	100000	100	2597.05	1931007.21	1543598.02	0.50	0.45
CatBoost	100000 x 100	100000	100	-537.93	682103.03	544932.55	0.94	4.39
TabNet(device_r	100000 x 100	100000	100	inf	inf	inf	inf	inf
AutoGluon	100000 x 100	100000	100	-2642.29	182102.69	145052.71	1.00	514.92
TFDecisionFores	100000 x 100	100000	100	-47991.98	2497561.93	1996611.14	0.16	31.04

Model	Dataset	Rows	Columns	ME	RMSE	MAE	R2	Training Time (s)
Linear Regressio	500000 x 10	500000	10	-2986.84	812252.28	650705.27	0.02	0.05
Random Forest(r	500000 x 10	500000	10	-15367.72	204640.46	146955.20	0.94	39.47
XGBoost	500000 x 10	500000	10	-477.75	96027.36	71902.89	0.99	0.32
XGBoost(tree_m	500000 x 10	500000	10	-477.75	96027.36	71902.89	0.99	0.33
LightGBM	500000 x 10	500000	10	190.10	156255.35	121080.71	0.96	0.36
CatBoost	500000 x 10	500000	10	-52.91	21436.62	16883.66	1.00	6.31
TabNet(device_r	500000 x 10	500000	10	inf	inf	inf	inf	inf
AutoGluon	500000 x 10	500000	10	-200.23	10947.78	8486.74	1.00	482.41
TFDecisionFores	500000 x 10	500000	10	-5682.82	369110.27	294795.24	0.80	28.12
Linear Regressio	500000 x 25	500000	25	-2774.84	1330827.29	1062885.39	0.02	0.17
Random Forest(r	500000 x 25	500000	25	-56315.27	744974.15	579974.22	0.69	102.21
XGBoost	500000 x 25	500000	25	-3455.84	257646.61	201065.39	0.96	0.79
XGBoost(tree_m	500000 x 25	500000	25	-3455.84	257646.61	201065.39	0.96	0.80
LightGBM	500000 x 25	500000	25	-680.02	486160.57	369746.11	0.87	0.54
CatBoost	500000 x 25	500000	25	212.31	55187.67	43696.39	1.00	7.75
TabNet(device_r	500000 x 25	500000	25	inf	inf	inf	inf	inf
AutoGluon	500000 x 25	500000	25	16.66	23278.35	18374.47	1.00	682.48
TFDecisionFores	500000 x 25	500000	25	-17245.93	1017022.50	812577.83	0.43	51.28
Linear Regressio	500000 x 50	500000	50	-1262.69	1896263.28	1512935.66	0.02	0.47
Random Forest(r	500000 x 50	500000	50	-85560.40	1400939.39	1111310.48	0.46	204.07
XGBoost	500000 x 50	500000	50	-2648.26	608392.21	484345.40	0.90	1.46
XGBoost(tree_m	500000 x 50	500000	50	-2648.26	608392.21	484345.40	0.90	1.49
LightGBM	500000 x 50	500000	50	-1138.74	1041704.77	822955.70	0.70	0.86
CatBoost	500000 x 50	500000	50	184.77	139214.68	110768.20	0.99	10.61
TabNet(device_r	500000 x 50	500000	50	inf	inf	inf	inf	inf
AutoGluon	500000 x 50	500000	50	-144.91	46649.23	37049.76	1.00	1123.09
TFDecisionFores	500000 x 50	500000	50	-22234.63	1655356.36	1320480.90	0.25	85.69
Linear Regressio	500000 x 100	500000	100	843.56	2699239.47	2154361.92	0.02	1.34
Random Forest(r	500000 x 100	500000	100	-113251.15	2303379.04	1834076.78	0.29	401.03
XGBoost	500000 x 100	500000	100	-7256.48	1440197.97	1148907.95	0.72	2.78
XGBoost(tree_m	500000 x 100	500000	100	-7256.48	1440197.97	1148907.95	0.72	2.70
LightGBM	500000 x 100	500000	100	1039.96	1941270.46	1548030.21	0.49	1.56
CatBoost	500000 x 100	500000	100	-584.45	467589.26	373117.18	0.97	15.83
TabNet(device_r	500000 x 100	500000	100	inf	inf	inf	inf	inf
AutoGluon	500000 x 100	500000	100	-835.05	102120.07	81349.70	1.00	2079.85
TFDecisionFores	500000 x 100	500000	100	-27584.65	2518859.79	2010103.78	0.15	170.03
Linear Regressio	1000000 x 10	1000000	10	-1350.90	813910.09	652583.90	0.02	0.12
Random Forest(r	1000000 x 10	1000000	10	-14197.01	188379.17	134715.96	0.95	90.34
XGBoost	1000000 x 10	1000000	10	-102.06	94909.65	71170.10	0.99	0.62
XGBoost(tree_m	1000000 x 10	1000000	10	-102.06	94909.65	71170.10	0.99	0.61
LightGBM	1000000 x 10	1000000	10	-336.01	159078.74	123345.99	0.96	0.62
CatBoost	1000000 x 10	1000000	10	-31.84	20711.15	16322.53	1.00	11.80
TabNet(device_r	1000000 x 10	1000000	10	inf	inf	inf	inf	inf
AutoGluon	1000000 x 10	1000000	10	-174.59	10429.13	8100.15	1.00	897.18
TFDecisionFores	1000000 x 10	1000000	10	-3227.85	371392.80	296969.12	0.80	57.18
Linear Regressio	1000000 x 25	1000000	25	1322.01	1329237.96	1061941.23	0.02	0.35
Random Forest(r	1000000 x 25	1000000	25	-51509.47	715335.22	555488.32	0.72	233.21
XGBoost	1000000 x 25	1000000	25	-1346.17	243009.90	189583.35	0.97	1.49
XGBoost(tree_m	1000000 x 25	1000000	25	-1346.17	243009.90	189583.35	0.97	1.41
LightGBM	1000000 x 25	1000000	25	-428.80	483285.71	367938.47	0.87	0.97
CatBoost	1000000 x 25	1000000	25	-7.36	52156.70	41384.82	1.00	15.04
TabNet(device_r	1000000 x 25	1000000	25	inf	inf	inf	inf	inf
AutoGluon	1000000 x 25	1000000	25	-12.80	21881.74	17325.18	1.00	1583.43
TFDecisionFores	1000000 x 25	1000000	25	-10435.43	1022386.56	817376.14	0.42	102.60

Model	Dataset	Rows	Columns	ME	RMSE	MAE	R2	Training Time (s)
Linear Regressio	1000000 x 50	1000000	50	5018.15	1901362.36	1519218.67	0.02	0.99
Random Forest(r	1000000 x 50	1000000	50	-80564.13	1381029.97	1097119.97	0.48	464.44
XGBoost	1000000 x 50	1000000	50	-907.13	580900.65	462013.13	0.91	2.80
XGBoost(tree_m	1000000 x 50	1000000	50	-907.13	580900.65	462013.13	0.91	2.90
LightGBM	1000000 x 50	1000000	50	1045.63	1042038.72	824493.85	0.71	1.64
CatBoost	1000000 x 50	1000000	50	-157.15	122120.33	97195.37	1.00	19.72
TabNet(device_r	1000000 x 50	1000000	50	inf	inf	inf	inf	inf
AutoGluon	1000000 x 50	1000000	50	-232.96	42114.87	33455.91	1.00	2366.74
TFDecisionFores	1000000 x 50	1000000	50	-11078.89	1668441.66	1333444.93	0.24	186.54
Linear Regressio	1000000 x 100	1000000	100	3097.86	2695548.87	2149858.04	0.02	2.92
Random Forest(r	1000000 x 100	1000000	100	-106422.90	2278260.92	1812874.40	0.30	984.36
XGBoost	1000000 x 100	1000000	100	-2888.12	1407767.07	1122871.13	0.73	5.01
XGBoost(tree_m	1000000 x 100	1000000	100	-2888.12	1407767.07	1122871.13	0.73	4.98
LightGBM	1000000 x 100	1000000	100	4560.91	1937709.21	1543880.72	0.49	3.90
CatBoost	1000000 x 100	1000000	100	571.15	397152.90	316623.01	0.98	32.33
TabNet(device_r	1000000 x 100	1000000	100	inf	inf	inf	inf	inf
AutoGluon	1000000 x 100	1000000	100	-96.59	87748.69	69872.96	1.00	4558.17
TFDecisionFores	1000000 x 100	1000000	100	-16800.77	2523456.07	2012032.48	0.14	339.46
Linear Regressio	2000000 x 10	2000000	10	2069.72	812565.11	651440.72	0.02	0.30
Random Forest(r	2000000 x 10	2000000	10	-12488.19	173615.43	123795.02	0.96	203.09
XGBoost	2000000 x 10	2000000	10	-40.09	94129.45	70635.57	0.99	1.30
XGBoost(tree_m	2000000 x 10	2000000	10	-40.09	94129.45	70635.57	0.99	1.30
LightGBM	2000000 x 10	2000000	10	225.48	158573.77	122927.34	0.96	1.16
CatBoost	2000000 x 10	2000000	10	-3.30	20097.48	15847.53	1.00	24.10
TabNet(device_r	2000000 x 10	2000000	10	inf	inf	inf	inf	inf
AutoGluon	2000000 x 10	2000000	10	-430.91	10150.80	7887.01	1.00	1668.68
TFDecisionFores	2000000 x 10	2000000	10	-1867.51	374839.79	299561.84	0.79	117.55
Linear Regressio	2000000 x 25	2000000	25	115.67	1329592.67	1062936.44	0.02	0.85
Random Forest(r	2000000 x 25	2000000	25	-49422.80	689977.13	534925.25	0.74	531.64
XGBoost	2000000 x 25	2000000	25	14.12	238876.74	186367.19	0.97	3.03
XGBoost(tree_m	2000000 x 25	2000000	25	14.12	238876.74	186367.19	0.97	3.00
LightGBM	2000000 x 25	2000000	25	287.10	481096.86	366342.76	0.87	2.09
CatBoost	2000000 x 25	2000000	25	-76.68	51459.75	40855.83	1.00	30.70
TabNet(device_r	2000000 x 25	2000000	25	inf	inf	inf	inf	inf
AutoGluon	2000000 x 25	2000000	25	-47.66	21007.35	16648.41	1.00	3003.09
TFDecisionFores	2000000 x 25	2000000	25	-7945.51	1029094.65	823635.91	0.41	221.98
Linear Regressio	2000000 x 50	2000000	50	-1765.15	1899509.51	1516870.44	0.02	2.59
Random Forest(r	2000000 x 50	2000000	50	-83877.46	1357603.39	1076667.17	0.50	1081.32
XGBoost	2000000 x 50	2000000	50	-1465.55	567142.26	451159.83	0.91	5.41
XGBoost(tree_m	2000000 x 50	2000000	50	-1465.55	567142.26	451159.83	0.91	5.38
LightGBM	2000000 x 50	2000000	50	-474.53	1040379.42	822367.53	0.71	4.42
CatBoost	2000000 x 50	2000000	50	-166.76	111218.33	88489.45	1.00	41.78
TabNet(device_r	2000000 x 50	2000000	50	inf	inf	inf	inf	inf
AutoGluon	2000000 x 50	2000000	50	-141.02	39325.00	31267.51	1.00	5119.60
TFDecisionFores	2000000 x 50	2000000	50	-11709.52	1673794.86	1336992.65	0.24	392.00
Linear Regressio	2000000 x 100	2000000	100	7735.54	2704848.93	2157747.13	0.02	6.78
Random Forest(r	2000000 x 100	2000000	100	-103579.32	2268427.48	1805990.99	0.31	2182.62
XGBoost	2000000 x 100	2000000	100	1785.25	1389339.48	1107725.23	0.74	8.72
XGBoost(tree_m	2000000 x 100	2000000	100	1785.25	1389339.48	1107725.23	0.74	8.78
LightGBM	2000000 x 100	2000000	100	4959.72	1945926.01	1550460.56	0.49	8.69
CatBoost	2000000 x 100	2000000	100	1551.15	344605.78	274676.32	0.98	64.59
TabNet(device_r	2000000 x 100	2000000	100	inf	inf	inf	inf	inf
AutoGluon	2000000 x 100	2000000	100	-13913.05	2339454.09	1865214.32	0.27	6724.33
TFDecisionFores	2000000 x 100	2000000	100	-6704.14	2539755.22	2026125.63	0.14	778.03

Model	Dataset	Rows	Columns	ME	RMSE	MAE	R2	Training Time (s)
Linear Regression	1000 x 10	1000	10	78052.45	765303.53	622992.31	0.000	0.00
Random Forest(n_jobs=-1)	1000 x 10	1000	10	29652.69	425999.99	337029.55	0.690	0.16
XGBoost	1000 x 10	1000	10	5080.71	297827.80	240351.59	0.850	0.06
XGBoost(tree_method="hist")	1000 x 10	1000	10	9203.69	313214.37	243429.55	0.830	0.05
LightGBM	1000 x 10	1000	10	10037.01	282829.48	222443.89	0.860	0.07
CatBoost	1000 x 10	1000	10	-6672.11	158101.02	113465.73	0.960	0.93
TabNet(device_name="cpu")	1000 x 10	1000	10	-1772190.00	1930544.40	1772190.00	-5.360	0.05
AutoGluon	1000 x 10	1000	10	9023.49	189110.23	144223.56	0.940	46.82
TFDecisionForest	1000 x 10	1000	10	42431.46	452736.24	363736.77	0.650	4.20
Linear Regression	1000 x 25	1000	25	-136552.89	1365980.07	1115506.05	-0.060	0.00
Random Forest(n_jobs=-1)	1000 x 25	1000	25	-174053.52	1052035.03	851671.54	0.370	0.19
XGBoost	1000 x 25	1000	25	-168417.49	946806.60	750231.47	0.490	0.08
XGBoost(tree_method="hist")	1000 x 25	1000	25	-245081.32	975139.70	755849.59	0.460	0.07
LightGBM	1000 x 25	1000	25	-140657.26	777110.08	614409.59	0.660	0.06
CatBoost	1000 x 25	1000	25	-165450.92	607732.37	478205.93	0.790	1.07
TabNet(device_name="cpu")	1000 x 25	1000	25	-5065835.09	5236598.12	5065835.09	-14.590	0.05
AutoGluon	1000 x 25	1000	25	-141929.31	647112.25	516165.24	0.760	44.60
TFDecisionForest	1000 x 25	1000	25	-146836.53	1071379.23	868233.45	0.350	0.44
Linear Regression	1000 x 50	1000	50	-64135.18	2106516.49	1660066.38	-0.050	0.01
Random Forest(n_jobs=-1)	1000 x 50	1000	50	-141653.02	1795035.96	1430590.58	0.240	0.23
XGBoost	1000 x 50	1000	50	-74114.73	1792225.34	1404795.85	0.240	0.09
XGBoost(tree_method="hist")	1000 x 50	1000	50	-156691.17	1842173.37	1445512.18	0.200	0.10
LightGBM	1000 x 50	1000	50	-48544.05	1501315.08	1228523.29	0.470	0.08
CatBoost	1000 x 50	1000	50	-113237.49	1432735.79	1149575.35	0.510	1.10
TabNet(device_name="cpu")	1000 x 50	1000	50	-10051102.49	10258734.62	10051102.49	-23.960	0.05
AutoGluon	1000 x 50	1000	50	-174059.78	1435270.48	1149887.67	0.510	41.40
TFDecisionForest	1000 x 50	1000	50	-100813.61	1790860.92	1418343.33	0.240	0.63
Linear Regression	1000 x 100	1000	100	44447.19	3083084.41	2411708.88	-0.170	0.03
Random Forest(n_jobs=-1)	1000 x 100	1000	100	-78201.01	2705711.37	2101864.62	0.100	0.30
XGBoost	1000 x 100	1000	100	-192003.28	2888053.80	2290424.79	-0.030	0.12
XGBoost(tree_method="hist")	1000 x 100	1000	100	-384531.38	2961366.18	2337496.95	-0.080	0.17
LightGBM	1000 x 100	1000	100	-94347.12	2515421.26	1972377.71	0.220	0.10
CatBoost	1000 x 100	1000	100	-136525.60	2449299.13	1923970.44	0.260	1.41
TabNet(device_name="cpu")	1000 x 100	1000	100	-20171222.11	20371856.22	20171222.11	-50.020	0.06
AutoGluon	1000 x 100	1000	100	-9856.34	2445119.50	1900571.99	0.270	49.21
TFDecisionForest	1000 x 100	1000	100	-45796.62	2658954.33	2057758.77	0.130	1.01
Linear Regression	10000 x 10	10000	10	-32095.31	800013.85	637688.05	0.030	0.00
Random Forest(n_jobs=-1)	10000 x 10	10000	10	-29507.01	342054.76	250288.21	0.820	0.42
XGBoost	10000 x 10	10000	10	-10434.03	177153.34	127831.66	0.950	0.20
XGBoost(tree_method="hist")	10000 x 10	10000	10	-6462.18	172586.04	123302.68	0.950	0.07
LightGBM	10000 x 10	10000	10	-5690.22	192358.80	147103.63	0.940	0.07
CatBoost	10000 x 10	10000	10	-3224.82	51821.52	35443.43	1.000	1.37
TabNet(device_name="cpu")	10000 x 10	10000	10	-1854878.89	2022458.63	1854878.89	-5.220	14.12
AutoGluon	10000 x 10	10000	10	-3809.27	41723.22	26834.35	1.000	72.95
TFDecisionForest	10000 x 10	10000	10	-24773.15	387457.29	297673.74	0.770	1.06
Linear Regression	10000 x 25	10000	25	17694.35	1332299.29	1064897.72	0.020	0.00
Random Forest(n_jobs=-1)	10000 x 25	10000	25	-54034.14	932491.71	741658.76	0.520	0.87
XGBoost	10000 x 25	10000	25	-24596.12	489590.41	390325.46	0.870	0.33
XGBoost(tree_method="hist")	10000 x 25	10000	25	-28991.53	494655.26	385766.42	0.860	0.09
LightGBM	10000 x 25	10000	25	-11174.34	554389.48	432057.45	0.830	0.08
CatBoost	10000 x 25	10000	25	-7927.88	174113.60	133351.70	0.980	1.50
TabNet(device_name="cpu")	10000 x 25	10000	25	-4863511.08	5045741.43	4863511.08	-13.090	15.18
AutoGluon	10000 x 25	10000	25	-10785.64	133519.42	100027.98	0.990	81.68
TFDecisionForest	10000 x 25	10000	25	-28726.24	1001901.09	801500.45	0.440	1.47
Linear Regression	10000 x 50	10000	50	81611.50	1930394.85	1546614.02	0.020	0.01
Random Forest(n_jobs=-1)	10000 x 50	10000	50	-32981.27	1570760.53	1256469.38	0.350	1.59
XGBoost	10000 x 50	10000	50	-17106.95	1065523.01	847391.28	0.700	0.46
XGBoost(tree_method="hist")	10000 x 50	10000	50	-27113.33	1066490.31	844031.86	0.700	0.15
LightGBM	10000 x 50	10000	50	26080.12	1081653.88	858024.93	0.690	0.11
CatBoost	10000 x 50	10000	50	3493.93	497360.62	391704.06	0.930	1.73
TabNet(device_name="cpu")	10000 x 50	10000	50	-9910818.48	10100115.79	9910818.48	-25.930	15.96
AutoGluon	10000 x 50	10000	50	-11637.86	367731.67	287637.47	0.960	91.44
TFDecisionForest	10000 x 50	10000	50	-124.57	1644710.23	1314203.57	0.290	2.05
Linear Regression	10000 x 100	10000	100	-78780.30	2648251.78	2105237.36	0.010	0.04

Model	Dataset	Rows	Columns	ME	RMSE	MAE	R2	Training Time (s)
Random Forest(n_jobs=-1)	10000 x 100	10000	100	-205368.67	2380001.31	1888299.76	0.200	3.06
XGBoost	10000 x 100	10000	100	-163558.59	1976620.91	1561868.10	0.450	0.72
XGBoost(tree_method="hist")	10000 x 100	10000	100	-185439.75	1984058.29	1589939.93	0.440	0.26
LightGBM	10000 x 100	10000	100	-96209.96	1929041.25	1528217.23	0.470	0.15
CatBoost	10000 x 100	10000	100	-73650.44	1304251.27	1032409.35	0.760	2.30
TabNet(device_name="cpu")	10000 x 100	10000	100	-20176568.38	20351450.21	20176568.38	-57.440	17.52
AutoGluon	10000 x 100	10000	100	-77282.73	1014729.35	801305.98	0.850	139.00
TFDecisionForest	10000 x 100	10000	100	-174799.24	2422780.79	1927027.68	0.170	3.40
Linear Regression	100000 x 10	100000	10	10073.91	811926.86	649901.41	0.020	0.01
Random Forest(n_jobs=-1)	100000 x 10	100000	10	-16142.73	246525.58	177137.40	0.910	4.56
XGBoost	100000 x 10	100000	10	-1252.00	106412.23	79081.16	0.980	1.53
XGBoost(tree_method="hist")	100000 x 10	100000	10	-587.08	106800.43	79524.11	0.980	0.12
LightGBM	100000 x 10	100000	10	639.86	160185.80	123825.13	0.960	0.13
CatBoost	100000 x 10	100000	10	-10.82	24461.18	18930.24	1.000	2.70
TabNet(device_name="cpu")	100000 x 10	100000	10	-975664.09	1035231.91	975664.09	-0.590	147.54
AutoGluon	100000 x 10	100000	10	-482.64	13116.62	9832.86	1.000	157.95
TFDecisionForest	100000 x 10	100000	10	-3835.59	364736.17	289294.95	0.800	6.35
Linear Regression	100000 x 25	100000	25	-9271.58	1336746.33	1067179.31	0.020	0.05
Random Forest(n_jobs=-1)	100000 x 25	100000	25	-62652.83	822278.45	643812.02	0.630	11.79
XGBoost	100000 x 25	100000	25	-8738.93	301033.33	235072.35	0.950	2.85
XGBoost(tree_method="hist")	100000 x 25	100000	25	-10334.77	301053.35	235222.89	0.950	0.23
LightGBM	100000 x 25	100000	25	-4101.46	500677.61	381122.69	0.860	0.18
CatBoost	100000 x 25	100000	25	-369.52	71564.01	56193.35	1.000	2.80
TabNet(device_name="cpu")	100000 x 25	100000	25	-4080328.62	4275448.24	4080328.62	-9.060	157.63
AutoGluon	100000 x 25	100000	25	-518.66	32613.11	25410.03	1.000	206.35
TFDecisionForest	100000 x 25	100000	25	-32969.53	1010830.17	805254.57	0.440	9.96
Linear Regression	100000 x 50	100000	50	7770.89	1908455.00	1522569.07	0.020	0.15
Random Forest(n_jobs=-1)	100000 x 50	100000	50	-85457.93	1472749.26	1168950.74	0.420	23.08
XGBoost	100000 x 50	100000	50	-10002.48	704706.76	561649.32	0.870	4.76
XGBoost(tree_method="hist")	100000 x 50	100000	50	-17205.42	721079.83	572829.53	0.860	0.42
LightGBM	100000 x 50	100000	50	-5747.75	1046493.31	825268.00	0.710	0.27
CatBoost	100000 x 50	100000	50	-2741.18	211049.85	167729.56	0.990	3.45
TabNet(device_name="cpu")	100000 x 50	100000	50	-9189086.69	9386189.29	9189086.69	-22.720	171.20
AutoGluon	100000 x 50	100000	50	-2204.66	72803.88	57463.32	1.000	287.18
TFDecisionForest	100000 x 50	100000	50	-33392.98	1646711.69	1312107.43	0.270	16.10
Linear Regression	100000 x 100	100000	100	6964.07	2696942.66	2156090.86	0.020	0.46
Random Forest(n_jobs=-1)	100000 x 100	100000	100	-106316.33	2350451.23	1877387.76	0.250	48.13
XGBoost	100000 x 100	100000	100	-23408.59	1566455.47	1250795.47	0.670	7.14
XGBoost(tree_method="hist")	100000 x 100	100000	100	-24363.66	1559704.04	1243323.85	0.670	0.80
LightGBM	100000 x 100	100000	100	2597.05	1931007.21	1543598.02	0.500	0.47
CatBoost	100000 x 100	100000	100	-537.93	682103.03	544932.55	0.940	5.90
TabNet(device_name="cpu")	100000 x 100	100000	100	inf	inf	inf	inf	inf
AutoGluon	100000 x 100	100000	100	-2642.29	182102.69	145052.71	1.000	541.37
TFDecisionForest	100000 x 100	100000	100	-47991.98	2497561.93	1996611.14	0.160	29.88
Linear Regression	500000 x 10	500000	10	-2986.84	812252.28	650705.27	0.020	0.09
Random Forest(n_jobs=-1)	500000 x 10	500000	10	-15367.72	204640.46	146955.19	0.940	35.98
XGBoost	500000 x 10	500000	10	-349.30	95680.29	71749.27	0.990	7.85
XGBoost(tree_method="hist")	500000 x 10	500000	10	-67.73	96950.21	72837.51	0.990	0.35
LightGBM	500000 x 10	500000	10	190.10	156255.35	121080.71	0.960	0.37
CatBoost	500000 x 10	500000	10	-52.91	21436.62	16883.66	1.000	9.39
TabNet(device_name="cpu")	500000 x 10	500000	10	inf	inf	inf	inf	inf
AutoGluon	500000 x 10	500000	10	-201.22	10941.64	8473.31	1.000	535.88
TFDecisionForest	500000 x 10	500000	10	-5682.82	369110.27	294795.24	0.800	28.92
Linear Regression	500000 x 25	500000	25	-2774.84	1330827.29	1062885.39	0.020	0.37
Random Forest(n_jobs=-1)	500000 x 25	500000	25	-56315.27	744974.14	579974.22	0.690	93.25
XGBoost	500000 x 25	500000	25	-1429.01	254455.13	198607.96	0.960	14.30
XGBoost(tree_method="hist")	500000 x 25	500000	25	-2935.57	254935.29	198602.21	0.960	0.81
LightGBM	500000 x 25	500000	25	-680.02	486160.57	369746.11	0.870	0.56
CatBoost	500000 x 25	500000	25	212.31	55187.67	43696.39	1.000	11.57
TabNet(device_name="cpu")	500000 x 25	500000	25	inf	inf	inf	inf	inf
AutoGluon	500000 x 25	500000	25	51.72	23279.11	18384.22	1.000	801.85
TFDecisionForest	500000 x 25	500000	25	-17245.93	1017022.50	812577.83	0.430	53.88
Linear Regression	500000 x 50	500000	50	-1262.69	1896263.28	1512935.66	0.020	1.15
Random Forest(n_jobs=-1)	500000 x 50	500000	50	-85560.40	1400939.39	1111310.48	0.460	187.48

Model	Dataset	Rows	Columns	ME	RMSE	MAE	R2	Training Time (s)
XGBoost	500000 x 50	500000	50	-4555.30	603832.81	479996.00	0.900	22.72
XGBoost(tree_method="hist")	500000 x 50	500000	50	-3088.16	602263.49	478788.19	0.900	1.64
LightGBM	500000 x 50	500000	50	-1138.74	1041704.77	822955.70	0.700	0.92
CatBoost	500000 x 50	500000	50	184.77	139214.68	110768.20	0.990	16.76
TabNet(device_name="cpu")	500000 x 50	500000	50	inf	inf	inf	inf	inf
AutoGluon	500000 x 50	500000	50	-203.09	46644.50	37048.51	1.000	1404.11
TFDecisionForest	500000 x 50	500000	50	-22234.63	1655356.36	1320480.90	0.250	98.28
Linear Regression	500000 x 100	500000	100	843.56	2699239.47	2154361.92	0.020	3.99
Random Forest(n_jobs=-1)	500000 x 100	500000	100	-113251.15	2303379.04	1834076.78	0.290	400.35
XGBoost	500000 x 100	500000	100	-10108.96	1438218.74	1146755.57	0.720	40.72
XGBoost(tree_method="hist")	500000 x 100	500000	100	-4673.48	1436817.02	1147505.23	0.720	3.05
LightGBM	500000 x 100	500000	100	1039.96	1941270.46	1548030.21	0.490	2.13
CatBoost	500000 x 100	500000	100	-584.45	467589.26	373117.18	0.970	30.28
TabNet(device_name="cpu")	500000 x 100	500000	100	inf	inf	inf	inf	inf
AutoGluon	500000 x 100	500000	100	-835.05	102120.07	81349.70	1.000	2850.56
TFDecisionForest	500000 x 100	500000	100	-27584.65	2518859.79	2010103.78	0.150	182.75
Linear Regression	1000000 x 10	1000000	10	-1350.90	813910.09	652583.89	0.020	0.26
Random Forest(n_jobs=-1)	1000000 x 10	1000000	10	-14197.01	188379.17	134715.96	0.950	94.14
XGBoost	1000000 x 10	1000000	10	-28.41	93760.76	70441.22	0.990	16.87
XGBoost(tree_method="hist")	1000000 x 10	1000000	10	-94.23	96247.70	72177.45	0.990	0.75
LightGBM	1000000 x 10	1000000	10	-336.01	159078.74	123345.99	0.960	0.66
CatBoost	1000000 x 10	1000000	10	-31.84	20711.15	16322.53	1.000	21.12
TabNet(device_name="cpu")	1000000 x 10	1000000	10	inf	inf	inf	inf	inf
AutoGluon	1000000 x 10	1000000	10	-175.34	10414.66	8076.25	1.000	1159.99
TFDecisionForest	1000000 x 10	1000000	10	-3227.85	371392.80	296969.12	0.800	69.14
Linear Regression	1000000 x 25	1000000	25	1322.01	1329237.96	1061941.23	0.020	0.83
Random Forest(n_jobs=-1)	1000000 x 25	1000000	25	-51509.47	715335.22	555488.32	0.720	245.99
XGBoost	1000000 x 25	1000000	25	-1175.00	241440.15	188731.12	0.970	28.56
XGBoost(tree_method="hist")	1000000 x 25	1000000	25	-1339.55	240030.48	187443.21	0.970	1.82
LightGBM	1000000 x 25	1000000	25	-428.80	483285.71	367938.47	0.870	1.11
CatBoost	1000000 x 25	1000000	25	-7.36	52156.70	41384.82	1.000	28.49
TabNet(device_name="cpu")	1000000 x 25	1000000	25	inf	inf	inf	inf	inf
AutoGluon	1000000 x 25	1000000	25	-6.81	21870.01	17325.64	1.000	2135.56
TFDecisionForest	1000000 x 25	1000000	25	-10435.43	1022386.56	817376.14	0.420	138.43
Linear Regression	1000000 x 50	1000000	50	5018.15	1901362.36	1519218.67	0.020	2.63
Random Forest(n_jobs=-1)	1000000 x 50	1000000	50	-80564.13	1381029.97	1097119.97	0.480	505.43
XGBoost	1000000 x 50	1000000	50	-2080.84	582675.41	463887.62	0.910	47.38
XGBoost(tree_method="hist")	1000000 x 50	1000000	50	-2075.39	579346.22	461140.97	0.910	3.41
LightGBM	1000000 x 50	1000000	50	1045.63	1042038.72	824493.85	0.710	2.57
CatBoost	1000000 x 50	1000000	50	-157.15	122120.33	97195.37	1.000	40.08
TabNet(device_name="cpu")	1000000 x 50	1000000	50	inf	inf	inf	inf	inf
AutoGluon	1000000 x 50	1000000	50	-211.01	42120.27	33471.35	1.000	3566.31
TFDecisionForest	1000000 x 50	1000000	50	-11078.89	1668441.66	1333444.93	0.240	236.27
Linear Regression	1000000 x 100	1000000	100	3097.86	2695548.87	2149858.04	0.020	8.15
Random Forest(n_jobs=-1)	1000000 x 100	1000000	100	-106422.90	2278260.92	1812874.40	0.300	1005.81
XGBoost	1000000 x 100	1000000	100	-3580.07	1402875.28	1118459.53	0.730	79.26
XGBoost(tree_method="hist")	1000000 x 100	1000000	100	-1582.78	1402148.55	1117606.87	0.730	5.81
LightGBM	1000000 x 100	1000000	100	4560.91	1937709.21	1543880.72	0.490	8.76
CatBoost	1000000 x 100	1000000	100	571.15	397152.90	316623.01	0.980	61.54
TabNet(device_name="cpu")	1000000 x 100	1000000	100	inf	inf	inf	inf	inf
AutoGluon	1000000 x 100	1000000	100	-125.90	87712.97	69829.64	1.000	7473.92
TFDecisionForest	1000000 x 100	1000000	100	-16800.77	2523456.07	2012032.48	0.140	449.20
Linear Regression	2000000 x 10	2000000	10	2069.72	812565.11	651440.72	0.020	0.68
Random Forest(n_jobs=-1)	2000000 x 10	2000000	10	-12488.19	173615.43	123795.02	0.960	248.59
XGBoost	2000000 x 10	2000000	10	-248.30	95673.70	72142.76	0.990	37.36
XGBoost(tree_method="hist")	2000000 x 10	2000000	10	-47.31	94891.84	71481.20	0.990	2.51
LightGBM	2000000 x 10	2000000	10	225.48	158573.77	122927.34	0.960	1.55
CatBoost	2000000 x 10	2000000	10	-3.30	20097.48	15847.53	1.000	54.03
TabNet(device_name="cpu")	2000000 x 10	2000000	10	inf	inf	inf	inf	inf
AutoGluon	2000000 x 10	2000000	10	-424.96	10164.45	7898.53	1.000	2663.47
TFDecisionForest	2000000 x 10	2000000	10	-1867.51	374839.78	299561.84	0.790	178.80
Linear Regression	2000000 x 25	2000000	25	115.67	1329592.67	1062936.44	0.020	2.61
Random Forest(n_jobs=-1)	2000000 x 25	2000000	25	-49422.80	689977.13	534925.25	0.740	622.92
XGBoost	2000000 x 25	2000000	25	-817.86	234973.96	183787.02	0.970	63.11

Model	Dataset	Rows	Columns	ME	RMSE	MAE	R2	Training Time (s)
XGBoost(tree_method="hist")	2000000 x 25	2000000	25	-371.84	235141.14	183724.46	0.970	4.77
LightGBM	2000000 x 25	2000000	25	287.10	481096.86	366342.76	0.870	3.85
CatBoost	2000000 x 25	2000000	25	-76.68	51459.75	40855.83	1.000	65.01
TabNet(device_name="cpu")	2000000 x 25	2000000	25	inf	inf	inf	inf	inf
AutoGluon	2000000 x 25	2000000	25	-40.98	21025.66	16668.94	1.000	4875.34
TFDecisionForest	2000000 x 25	2000000	25	-7945.51	1029094.65	823635.90	0.410	341.14
Linear Regression	2000000 x 50	2000000	50	-1765.15	1899509.51	1516870.44	0.020	6.43
Random Forest(n_jobs=-1)	2000000 x 50	2000000	50	-83877.46	1357603.39	1076667.17	0.500	1285.59
XGBoost	2000000 x 50	2000000	50	-2152.34	569121.92	452768.27	0.910	99.85
XGBoost(tree_method="hist")	2000000 x 50	2000000	50	-970.19	566936.96	451191.40	0.910	7.11
LightGBM	2000000 x 50	2000000	50	-474.53	1040379.42	822367.53	0.710	10.65
CatBoost	2000000 x 50	2000000	50	-166.76	111218.33	88489.45	1.000	92.84
TabNet(device_name="cpu")	2000000 x 50	2000000	50	inf	inf	inf	inf	inf
AutoGluon	2000000 x 50	2000000	50	-136.56	39333.59	31272.65	1.000	9010.32
TFDecisionForest	2000000 x 50	2000000	50	-11709.52	1673794.86	1336992.65	0.240	582.17

Model	Dataset	Rows	Columns	ME	RMSE	MAE	R2	Training Time (s)
Linear Regression	1000 x 10	1000	10	78052.45	765303.53	622992.31	0.000	0.00
Random Forest(n_jobs=-1)	1000 x 10	1000	10	29652.69	425999.99	337029.55	0.690	0.17
XGBoost	1000 x 10	1000	10	5080.71	297827.80	240351.59	0.850	0.07
XGBoost(tree_method="hist")	1000 x 10	1000	10	9203.69	313214.37	243429.55	0.830	0.05
LightGBM	1000 x 10	1000	10	10037.01	282829.48	222443.89	0.860	0.08
CatBoost	1000 x 10	1000	10	-6672.11	158101.02	113465.73	0.960	0.91
TabNet(device_name="cpu")	1000 x 10	1000	10	-1772190.00	1930544.40	1772190.00	-5.360	0.05
AutoGluon	1000 x 10	1000	10	9023.49	189110.23	144223.56	0.940	45.70
TFDecisionForest	1000 x 10	1000	10	42431.46	452736.24	363736.77	0.650	3.97
Linear Regression	1000 x 25	1000	25	-136552.89	1365980.07	1115506.05	-0.060	0.00
Random Forest(n_jobs=-1)	1000 x 25	1000	25	-174053.52	1052035.03	851671.54	0.370	0.19
XGBoost	1000 x 25	1000	25	-168417.49	946806.60	750231.47	0.490	0.07
XGBoost(tree_method="hist")	1000 x 25	1000	25	-245081.32	975139.70	755849.59	0.460	0.07
LightGBM	1000 x 25	1000	25	-140657.26	777110.08	614409.59	0.660	0.06
CatBoost	1000 x 25	1000	25	-165450.92	607732.37	478205.93	0.790	1.12
TabNet(device_name="cpu")	1000 x 25	1000	25	-5065835.09	5236598.12	5065835.09	-14.590	0.05
AutoGluon	1000 x 25	1000	25	-141929.31	647112.25	516165.24	0.760	44.74
TFDecisionForest	1000 x 25	1000	25	-146836.53	1071379.23	868233.45	0.350	0.42
Linear Regression	1000 x 50	1000	50	-64135.18	2106516.49	1660066.38	-0.050	0.01
Random Forest(n_jobs=-1)	1000 x 50	1000	50	-141653.02	1795035.96	1430590.58	0.240	0.24
XGBoost	1000 x 50	1000	50	-74114.73	1792225.34	1404795.85	0.240	0.09
XGBoost(tree_method="hist")	1000 x 50	1000	50	-156691.17	1842173.37	1445512.18	0.200	0.10
LightGBM	1000 x 50	1000	50	-48544.05	1501315.08	1228523.29	0.470	0.07
CatBoost	1000 x 50	1000	50	-113237.49	1432735.79	1149575.35	0.510	1.19
TabNet(device_name="cpu")	1000 x 50	1000	50	-10051102.49	10258734.62	10051102.49	-23.960	0.05
AutoGluon	1000 x 50	1000	50	-174059.78	1435270.48	1149887.67	0.510	41.29
TFDecisionForest	1000 x 50	1000	50	-100813.61	1790860.92	1418343.33	0.240	0.59
Linear Regression	1000 x 100	1000	100	44447.19	3083084.41	2411708.88	-0.170	0.03
Random Forest(n_jobs=-1)	1000 x 100	1000	100	-78201.01	2705711.37	2101864.62	0.100	0.31
XGBoost	1000 x 100	1000	100	-192003.28	2888053.80	2290424.79	-0.030	0.11
XGBoost(tree_method="hist")	1000 x 100	1000	100	-384531.38	2961366.18	2337496.95	-0.080	0.17
LightGBM	1000 x 100	1000	100	-94347.12	2515421.26	1972377.71	0.220	0.09
CatBoost	1000 x 100	1000	100	-136525.60	2449299.13	1923970.44	0.260	1.43
TabNet(device_name="cpu")	1000 x 100	1000	100	-20171222.11	20371856.22	20171222.11	-50.020	0.06
AutoGluon	1000 x 100	1000	100	-9856.34	2445119.50	1900571.99	0.270	49.38
TFDecisionForest	1000 x 100	1000	100	-45796.62	2658954.33	2057758.77	0.130	1.00
Linear Regression	10000 x 10	10000	10	-32095.31	800013.85	637688.05	0.030	0.00
Random Forest(n_jobs=-1)	10000 x 10	10000	10	-29507.01	342054.76	250288.21	0.820	0.43
XGBoost	10000 x 10	10000	10	-10434.03	177153.34	127831.66	0.950	0.21
XGBoost(tree_method="hist")	10000 x 10	10000	10	-6462.18	172586.04	123302.68	0.950	0.06
LightGBM	10000 x 10	10000	10	-5690.22	192358.80	147103.63	0.940	0.07
CatBoost	10000 x 10	10000	10	-3224.82	51821.52	35443.43	1.000	1.38
TabNet(device_name="cpu")	10000 x 10	10000	10	-1854878.89	2022458.63	1854878.89	-5.220	14.38
AutoGluon	10000 x 10	10000	10	-3809.27	41723.22	26834.35	1.000	72.00
TFDecisionForest	10000 x 10	10000	10	-24773.15	387457.29	297673.74	0.770	1.00
Linear Regression	10000 x 25	10000	25	17694.35	1332299.29	1064897.72	0.020	0.00
Random Forest(n_jobs=-1)	10000 x 25	10000	25	-54034.14	932491.71	741658.76	0.520	0.84
XGBoost	10000 x 25	10000	25	-24596.12	489590.41	390325.46	0.870	0.34
XGBoost(tree_method="hist")	10000 x 25	10000	25	-28991.53	494655.26	385766.42	0.860	0.09
LightGBM	10000 x 25	10000	25	-11174.34	554389.48	432057.45	0.830	0.08
CatBoost	10000 x 25	10000	25	-7927.88	174113.60	133351.70	0.980	1.56
TabNet(device_name="cpu")	10000 x 25	10000	25	-4863511.08	5045741.43	4863511.08	-13.090	15.14
AutoGluon	10000 x 25	10000	25	-10785.64	133519.42	100027.98	0.990	78.91
TFDecisionForest	10000 x 25	10000	25	-28726.24	1001901.09	801500.45	0.440	1.39
Linear Regression	10000 x 50	10000	50	81611.50	1930394.85	1546614.02	0.020	0.02
Random Forest(n_jobs=-1)	10000 x 50	10000	50	-32981.27	1570760.53	1256469.38	0.350	1.57
XGBoost	10000 x 50	10000	50	-17106.95	1065523.01	847391.28	0.700	0.46
XGBoost(tree_method="hist")	10000 x 50	10000	50	-27113.33	1066490.31	844031.86	0.700	0.14
LightGBM	10000 x 50	10000	50	26080.12	1081653.88	858024.93	0.690	0.11
CatBoost	10000 x 50	10000	50	3493.93	497360.62	391704.06	0.930	1.77
TabNet(device_name="cpu")	10000 x 50	10000	50	-9910818.48	10100115.79	9910818.48	-25.930	16.26
AutoGluon	10000 x 50	10000	50	-11637.86	367731.67	287637.47	0.960	90.89
TFDecisionForest	10000 x 50	10000	50	-124.57	1644710.23	1314203.57	0.290	2.01
Linear Regression	10000 x 100	10000	100	-78780.30	2648251.78	2105237.36	0.010	0.04

Model	Dataset	Rows	Columns	ME	RMSE	MAE	R2	Training Time (s)
Random Forest(n_jobs=-1)	10000 x 100	10000	100	-205368.67	2380001.31	1888299.76	0.200	3.05
XGBoost	10000 x 100	10000	100	-163558.59	1976620.91	1561868.10	0.450	0.72
XGBoost(tree_method="hist")	10000 x 100	10000	100	-185439.75	1984058.29	1589939.93	0.440	0.27
LightGBM	10000 x 100	10000	100	-96209.96	1929041.25	1528217.23	0.470	0.15
CatBoost	10000 x 100	10000	100	-73650.44	1304251.27	1032409.35	0.760	2.30
TabNet(device_name="cpu")	10000 x 100	10000	100	-20176568.38	20351450.21	20176568.38	-57.440	17.39
AutoGluon	10000 x 100	10000	100	-77282.73	1014729.35	801305.98	0.850	136.74
TFDecisionForest	10000 x 100	10000	100	-174799.24	2422780.79	1927027.68	0.170	3.32
Linear Regression	100000 x 10	100000	10	10073.91	811926.86	649901.41	0.020	0.01
Random Forest(n_jobs=-1)	100000 x 10	100000	10	-16142.73	246525.58	177137.40	0.910	4.51
XGBoost	100000 x 10	100000	10	-1252.00	106412.23	79081.16	0.980	1.54
XGBoost(tree_method="hist")	100000 x 10	100000	10	-587.08	106800.43	79524.11	0.980	0.11
LightGBM	100000 x 10	100000	10	639.86	160185.80	123825.13	0.960	0.13
CatBoost	100000 x 10	100000	10	-10.82	24461.18	18930.24	1.000	2.46
TabNet(device_name="cpu")	100000 x 10	100000	10	-975664.09	1035231.91	975664.09	-0.590	151.07
AutoGluon	100000 x 10	100000	10	-482.64	13116.62	9832.86	1.000	159.08
TFDecisionForest	100000 x 10	100000	10	-3835.59	364736.17	289294.95	0.800	6.08
Linear Regression	100000 x 25	100000	25	-9271.58	1336746.33	1067179.31	0.020	0.03
Random Forest(n_jobs=-1)	100000 x 25	100000	25	-62652.83	822278.45	643812.02	0.630	11.51
XGBoost	100000 x 25	100000	25	-8738.93	301033.33	235072.35	0.950	2.88
XGBoost(tree_method="hist")	100000 x 25	100000	25	-10334.77	301053.35	235222.89	0.950	0.24
LightGBM	100000 x 25	100000	25	-4101.46	500677.61	381122.69	0.860	0.18
CatBoost	100000 x 25	100000	25	-369.52	71564.01	56193.35	1.000	2.76
TabNet(device_name="cpu")	100000 x 25	100000	25	-4080328.62	4275448.24	4080328.62	-9.060	163.25
AutoGluon	100000 x 25	100000	25	-518.66	32613.11	25410.03	1.000	206.73
TFDecisionForest	100000 x 25	100000	25	-32969.53	1010830.17	805254.57	0.440	9.76
Linear Regression	100000 x 50	100000	50	7770.89	1908455.00	1522569.07	0.020	0.09
Random Forest(n_jobs=-1)	100000 x 50	100000	50	-85457.93	1472749.26	1168950.74	0.420	23.08
XGBoost	100000 x 50	100000	50	-10002.48	704706.76	561649.32	0.870	4.34
XGBoost(tree_method="hist")	100000 x 50	100000	50	-17205.42	721079.83	572829.53	0.860	0.42
LightGBM	100000 x 50	100000	50	-5747.75	1046493.31	825268.00	0.710	0.27
CatBoost	100000 x 50	100000	50	-2741.18	211049.85	167729.56	0.990	3.40
TabNet(device_name="cpu")	100000 x 50	100000	50	-9189086.69	9386189.29	9189086.69	-22.720	171.14
AutoGluon	100000 x 50	100000	50	-2204.66	72803.88	57463.32	1.000	284.64
TFDecisionForest	100000 x 50	100000	50	-33392.98	1646711.69	1312107.43	0.270	15.93
Linear Regression	100000 x 100	100000	100	6964.07	2696942.66	2156090.86	0.020	0.36
Random Forest(n_jobs=-1)	100000 x 100	100000	100	-106316.33	2350451.23	1877387.76	0.250	47.06
XGBoost	100000 x 100	100000	100	-23408.59	1566455.47	1250795.47	0.670	7.14
XGBoost(tree_method="hist")	100000 x 100	100000	100	-24363.66	1559704.04	1243323.85	0.670	0.75
LightGBM	100000 x 100	100000	100	2597.05	1931007.21	1543598.02	0.500	0.46
CatBoost	100000 x 100	100000	100	-537.93	682103.03	544932.55	0.940	5.16
TabNet(device_name="cpu")	100000 x 100	100000	100	inf	inf	inf	inf	inf
AutoGluon	100000 x 100	100000	100	-2642.29	182102.69	145052.71	1.000	518.21
TFDecisionForest	100000 x 100	100000	100	-47991.98	2497561.93	1996611.14	0.160	29.26
Linear Regression	500000 x 10	500000	10	-2986.84	812252.28	650705.27	0.020	0.07
Random Forest(n_jobs=-1)	500000 x 10	500000	10	-15367.72	204640.46	146955.19	0.940	32.51
XGBoost	500000 x 10	500000	10	-349.30	95680.29	71749.27	0.990	7.84
XGBoost(tree_method="hist")	500000 x 10	500000	10	-67.73	96950.21	72837.51	0.990	0.34
LightGBM	500000 x 10	500000	10	190.10	156255.35	121080.71	0.960	0.38
CatBoost	500000 x 10	500000	10	-52.91	21436.62	16883.66	1.000	7.77
TabNet(device_name="cpu")	500000 x 10	500000	10	inf	inf	inf	inf	inf
AutoGluon	500000 x 10	500000	10	-201.22	10941.64	8473.31	1.000	498.74
TFDecisionForest	500000 x 10	500000	10	-5682.82	369110.27	294795.24	0.800	27.72
Linear Regression	500000 x 25	500000	25	-2774.84	1330827.29	1062885.39	0.020	0.30
Random Forest(n_jobs=-1)	500000 x 25	500000	25	-56315.27	744974.14	579974.22	0.690	83.18
XGBoost	500000 x 25	500000	25	-1429.01	254455.13	198607.96	0.960	13.90
XGBoost(tree_method="hist")	500000 x 25	500000	25	-2935.57	254935.29	198602.21	0.960	0.81
LightGBM	500000 x 25	500000	25	-680.02	486160.57	369746.11	0.870	0.56
CatBoost	500000 x 25	500000	25	212.31	55187.67	43696.39	1.000	9.53
TabNet(device_name="cpu")	500000 x 25	500000	25	inf	inf	inf	inf	inf
AutoGluon	500000 x 25	500000	25	51.72	23279.11	18384.22	1.000	716.04
TFDecisionForest	500000 x 25	500000	25	-17245.93	1017022.50	812577.83	0.430	50.05
Linear Regression	500000 x 50	500000	50	-1262.69	1896263.28	1512935.66	0.020	0.88
Random Forest(n_jobs=-1)	500000 x 50	500000	50	-85560.40	1400939.39	1111310.48	0.460	167.64

Model	Dataset	Rows	Columns	ME	RMSE	MAE	R2	Training Time (s)
XGBoost	500000 x 50	500000	50	-4555.30	603832.81	479996.00	0.900	22.27
XGBoost(tree_method="hist")	500000 x 50	500000	50	-3088.16	602263.49	478788.19	0.900	1.58
LightGBM	500000 x 50	500000	50	-1138.74	1041704.77	822955.70	0.700	0.89
CatBoost	500000 x 50	500000	50	184.77	139214.68	110768.20	0.990	13.36
TabNet(device_name="cpu")	500000 x 50	500000	50	inf	inf	inf	inf	inf
AutoGluon	500000 x 50	500000	50	-203.09	46644.50	37048.51	1.000	1215.92
TFDecisionForest	500000 x 50	500000	50	-22234.63	1655356.36	1320480.90	0.250	88.16
Linear Regression	500000 x 100	500000	100	843.56	2699239.47	2154361.92	0.020	3.00
Random Forest(n_jobs=-1)	500000 x 100	500000	100	-113251.15	2303379.04	1834076.78	0.290	345.95
XGBoost	500000 x 100	500000	100	-10108.96	1438218.74	1146755.57	0.720	37.73
XGBoost(tree_method="hist")	500000 x 100	500000	100	-4673.48	1436817.02	1147505.23	0.720	2.80
LightGBM	500000 x 100	500000	100	1039.96	1941270.46	1548030.21	0.490	1.80
CatBoost	500000 x 100	500000	100	-584.45	467589.26	373117.18	0.970	23.35
TabNet(device_name="cpu")	500000 x 100	500000	100	inf	inf	inf	inf	inf
AutoGluon	500000 x 100	500000	100	-835.05	102120.07	81349.70	1.000	2354.39
TFDecisionForest	500000 x 100	500000	100	-27584.65	2518859.79	2010103.78	0.150	172.06
Linear Regression	1000000 x 10	1000000	10	-1350.90	813910.09	652583.89	0.020	0.22
Random Forest(n_jobs=-1)	1000000 x 10	1000000	10	-14197.01	188379.17	134715.96	0.950	81.79
XGBoost	1000000 x 10	1000000	10	-28.41	93760.76	70441.22	0.990	16.85
XGBoost(tree_method="hist")	1000000 x 10	1000000	10	-94.23	96247.70	72177.45	0.990	0.68
LightGBM	1000000 x 10	1000000	10	-336.01	159078.74	123345.99	0.960	0.67
CatBoost	1000000 x 10	1000000	10	-31.84	20711.15	16322.53	1.000	17.04
TabNet(device_name="cpu")	1000000 x 10	1000000	10	inf	inf	inf	inf	inf
AutoGluon	1000000 x 10	1000000	10	-175.35	10414.82	8076.50	1.000	1042.01
TFDecisionForest	1000000 x 10	1000000	10	-3227.85	371392.80	296969.12	0.800	59.42
Linear Regression	1000000 x 25	1000000	25	1322.01	1329237.96	1061941.23	0.020	0.66
Random Forest(n_jobs=-1)	1000000 x 25	1000000	25	-51509.47	715335.22	555488.32	0.720	205.92
XGBoost	1000000 x 25	1000000	25	-1175.00	241440.15	188731.12	0.970	27.67
XGBoost(tree_method="hist")	1000000 x 25	1000000	25	-1339.55	240030.48	187443.21	0.970	1.69
LightGBM	1000000 x 25	1000000	25	-428.80	483285.71	367938.47	0.870	1.07
CatBoost	1000000 x 25	1000000	25	-7.36	52156.70	41384.82	1.000	22.02
TabNet(device_name="cpu")	1000000 x 25	1000000	25	inf	inf	inf	inf	inf
AutoGluon	1000000 x 25	1000000	25	-6.81	21870.01	17325.64	1.000	1807.13
TFDecisionForest	1000000 x 25	1000000	25	-10435.43	1022386.56	817376.14	0.420	111.01
Linear Regression	1000000 x 50	1000000	50	5018.15	1901362.36	1519218.67	0.020	1.92
Random Forest(n_jobs=-1)	1000000 x 50	1000000	50	-80564.13	1381029.97	1097119.97	0.480	411.66
XGBoost	1000000 x 50	1000000	50	-2080.84	582675.41	463887.62	0.910	45.24
XGBoost(tree_method="hist")	1000000 x 50	1000000	50	-2075.39	579346.22	461140.97	0.910	2.95
LightGBM	1000000 x 50	1000000	50	1045.63	1042038.72	824493.85	0.710	2.18
CatBoost	1000000 x 50	1000000	50	-157.15	122120.33	97195.37	1.000	30.44
TabNet(device_name="cpu")	1000000 x 50	1000000	50	inf	inf	inf	inf	inf
AutoGluon	1000000 x 50	1000000	50	-211.01	42120.27	33471.35	1.000	2896.38
TFDecisionForest	1000000 x 50	1000000	50	-11078.89	1668441.66	1333444.93	0.240	204.02
Linear Regression	1000000 x 100	1000000	100	3097.86	2695548.87	2149858.04	0.020	6.15
Random Forest(n_jobs=-1)	1000000 x 100	1000000	100	-106422.90	2278260.92	1812874.40	0.300	859.92
XGBoost	1000000 x 100	1000000	100	-3580.07	1402875.28	1118459.53	0.730	79.67
XGBoost(tree_method="hist")	1000000 x 100	1000000	100	-1582.78	1402148.55	1117606.87	0.730	5.55
LightGBM	1000000 x 100	1000000	100	4560.91	1937709.21	1543880.72	0.490	6.70
CatBoost	1000000 x 100	1000000	100	571.15	397152.90	316623.01	0.980	47.70
TabNet(device_name="cpu")	1000000 x 100	1000000	100	inf	inf	inf	inf	inf
AutoGluon	1000000 x 100	1000000	100	-125.90	87712.97	69829.64	1.000	5849.41
TFDecisionForest	1000000 x 100	1000000	100	-16800.77	2523456.07	2012032.48	0.140	389.64
Linear Regression	2000000 x 10	2000000	10	2069.72	812565.11	651440.72	0.020	0.54
Random Forest(n_jobs=-1)	2000000 x 10	2000000	10	-12488.19	173615.43	123795.02	0.960	200.77
XGBoost	2000000 x 10	2000000	10	-248.30	95673.70	72142.76	0.990	35.66
XGBoost(tree_method="hist")	2000000 x 10	2000000	10	-47.31	94891.84	71481.20	0.990	1.92
LightGBM	2000000 x 10	2000000	10	225.48	158573.77	122927.34	0.960	1.33
CatBoost	2000000 x 10	2000000	10	-3.30	20097.48	15847.53	1.000	40.60
TabNet(device_name="cpu")	2000000 x 10	2000000	10	inf	inf	inf	inf	inf
AutoGluon	2000000 x 10	2000000	10	-424.97	10164.45	7898.53	1.000	2127.81
TFDecisionForest	2000000 x 10	2000000	10	-1867.51	374839.78	299561.84	0.790	136.12
Linear Regression	2000000 x 25	2000000	25	115.67	1329592.67	1062936.44	0.020	1.55
Random Forest(n_jobs=-1)	2000000 x 25	2000000	25	-49422.80	689977.13	534925.25	0.740	497.87
XGBoost	2000000 x 25	2000000	25	-817.86	234973.96	183787.02	0.970	60.04

Model	Dataset	Rows	Columns	ME	RMSE	MAE	R2	Training Time (s)
XGBoost(tree_method="hist")	2000000 x 25	2000000	25	-371.84	235141.14	183724.46	0.970	3.85
LightGBM	2000000 x 25	2000000	25	287.10	481096.86	366342.76	0.870	2.94
CatBoost	2000000 x 25	2000000	25	-76.68	51459.75	40855.83	1.000	48.97
TabNet(device_name="cpu")	2000000 x 25	2000000	25	inf	inf	inf	inf	inf
AutoGluon	2000000 x 25	2000000	25	-40.98	21025.66	16668.94	1.000	3889.15
TFDecisionForest	2000000 x 25	2000000	25	-7945.51	1029094.65	823635.90	0.410	266.85
Linear Regression	2000000 x 50	2000000	50	-1765.15	1899509.51	1516870.44	0.020	4.94
Random Forest(n_jobs=-1)	2000000 x 50	2000000	50	-83877.46	1357603.39	1076667.17	0.500	1006.05
XGBoost	2000000 x 50	2000000	50	-2152.34	569121.92	452768.27	0.910	101.79
XGBoost(tree_method="hist")	2000000 x 50	2000000	50	-970.19	566936.96	451191.40	0.910	6.20
LightGBM	2000000 x 50	2000000	50	-474.53	1040379.42	822367.53	0.710	7.58
CatBoost	2000000 x 50	2000000	50	-166.76	111218.33	88489.45	1.000	64.63
TabNet(device_name="cpu")	2000000 x 50	2000000	50	inf	inf	inf	inf	inf
AutoGluon	2000000 x 50	2000000	50	-136.56	39333.59	31272.65	1.000	6855.73
TFDecisionForest	2000000 x 50	2000000	50	-11709.52	1673794.86	1336992.65	0.240	448.40

Model	Dataset	Rows	Columns	ME	RMSE	MAE	R2	Training Time (s)
Linear Regression	1000 x 10	1000	10	78052.45	765303.53	622992.31	0.001	0.00
Random Forest(n_jobs=-1)	1000 x 10	1000	10	29652.69	425999.99	337029.55	0.690	0.16
XGBoost	1000 x 10	1000	10	5080.71	297827.80	240351.59	0.849	0.06
XGBoost(tree_method="hist")	1000 x 10	1000	10	9203.69	313214.37	243429.55	0.833	0.06
LightGBM	1000 x 10	1000	10	10037.01	282829.48	222443.89	0.864	0.07
CatBoost	1000 x 10	1000	10	-6672.11	158101.02	113465.73	0.957	0.87
TabNet(device_name="cpu")	1000 x 10	1000	10	-1772190.00	1930544.40	1772190.00	-5.356	0.05
AutoGluon	1000 x 10	1000	10	9023.49	189110.23	144223.56	0.939	48.43
TFDecisionForest	1000 x 10	1000	10	42431.46	452736.24	363736.77	0.650	4.10
Linear Regression	1000 x 25	1000	25	-136552.89	1365980.07	1115506.05	-0.061	0.00
Random Forest(n_jobs=-1)	1000 x 25	1000	25	-174053.52	1052035.03	851671.54	0.371	0.19
XGBoost	1000 x 25	1000	25	-168417.49	946806.60	750231.47	0.490	0.08
XGBoost(tree_method="hist")	1000 x 25	1000	25	-245081.32	975139.70	755849.59	0.459	0.07
LightGBM	1000 x 25	1000	25	-140657.26	777110.08	614409.59	0.657	0.07
CatBoost	1000 x 25	1000	25	-165450.92	607732.37	478205.93	0.790	1.13
TabNet(device_name="cpu")	1000 x 25	1000	25	-5065835.09	5236598.12	5065835.09	-14.587	0.05
AutoGluon	1000 x 25	1000	25	-141929.31	647112.25	516165.24	0.762	45.07
TFDecisionForest	1000 x 25	1000	25	-146836.53	1071379.23	868233.45	0.348	0.42
Linear Regression	1000 x 50	1000	50	-64135.18	2106516.49	1660066.38	-0.052	0.01
Random Forest(n_jobs=-1)	1000 x 50	1000	50	-141653.02	1795035.96	1430590.58	0.236	0.23
XGBoost	1000 x 50	1000	50	-74114.73	1792225.34	1404795.85	0.238	0.09
XGBoost(tree_method="hist")	1000 x 50	1000	50	-156691.17	1842173.37	1445512.18	0.195	0.11
LightGBM	1000 x 50	1000	50	-48544.05	1501315.08	1228523.29	0.466	0.07
CatBoost	1000 x 50	1000	50	-113237.49	1432735.79	1149575.35	0.513	1.12
TabNet(device_name="cpu")	1000 x 50	1000	50	-10051102.50	10258734.60	10051102.50	-23.957	0.06
AutoGluon	1000 x 50	1000	50	-174059.78	1435270.48	1149887.67	0.511	41.73
TFDecisionForest	1000 x 50	1000	50	-100813.61	1790860.92	1418343.33	0.239	0.61
Linear Regression	1000 x 100	1000	100	44447.19	3083084.41	2411708.88	-0.169	0.01
Random Forest(n_jobs=-1)	1000 x 100	1000	100	-78201.01	2705711.37	2101864.62	0.100	0.30
XGBoost	1000 x 100	1000	100	-192003.28	2888053.80	2290424.79	-0.025	0.12
XGBoost(tree_method="hist")	1000 x 100	1000	100	-384531.38	2961366.18	2337496.95	-0.078	0.17
LightGBM	1000 x 100	1000	100	-94347.12	2515421.26	1972377.71	0.222	0.10
CatBoost	1000 x 100	1000	100	-136525.60	2449299.13	1923970.44	0.262	1.48
TabNet(device_name="cpu")	1000 x 100	1000	100	-20171222.10	20371856.20	20171222.10	-50.020	0.06
AutoGluon	1000 x 100	1000	100	-9856.34	2445119.50	1900571.99	0.265	48.40
TFDecisionForest	1000 x 100	1000	100	-45796.62	2658954.33	2057758.77	0.131	1.01
Linear Regression	10000 x 10	10000	10	-32095.31	800013.85	637688.05	0.027	0.00
Random Forest(n_jobs=-1)	10000 x 10	10000	10	-29507.01	342054.76	250288.21	0.822	0.41
XGBoost	10000 x 10	10000	10	-10434.03	177153.34	127831.66	0.952	0.21
XGBoost(tree_method="hist")	10000 x 10	10000	10	-6462.18	172586.04	123302.69	0.955	0.07
LightGBM	10000 x 10	10000	10	-5690.22	192358.80	147103.63	0.944	0.07
CatBoost	10000 x 10	10000	10	-3224.82	51821.52	35443.43	0.996	1.35
TabNet(device_name="cpu")	10000 x 10	10000	10	-1854878.89	2022458.63	1854878.89	-5.218	15.30
AutoGluon	10000 x 10	10000	10	-3809.27	41723.22	26834.35	0.997	72.83
TFDecisionForest	10000 x 10	10000	10	-24773.15	387457.29	297673.74	0.772	1.03
Linear Regression	10000 x 25	10000	25	17694.35	1332299.29	1064897.72	0.017	0.01
Random Forest(n_jobs=-1)	10000 x 25	10000	25	-54034.14	932491.71	741658.76	0.519	0.89
XGBoost	10000 x 25	10000	25	-24596.12	489590.41	390325.46	0.867	0.34
XGBoost(tree_method="hist")	10000 x 25	10000	25	-28991.53	494655.26	385766.42	0.865	0.11

Model	Dataset	Rows	Columns	ME	RMSE	MAE	R2	Training Time (s)
LightGBM	10000 x 25	10000	25	-11174.34	554389.48	432057.45	0.830	0.09
CatBoost	10000 x 25	10000	25	-7927.88	174113.60	133351.70	0.983	1.57
TabNet(device_name="cpu")	10000 x 25	10000	25	-4863511.08	5045741.43	4863511.08	-13.095	16.08
AutoGluon	10000 x 25	10000	25	-10785.64	133519.42	100027.98	0.990	78.64
TFDecisionForest	10000 x 25	10000	25	-28726.24	1001901.09	801500.45	0.444	1.41
Linear Regression	10000 x 50	10000	50	81611.50	1930394.85	1546614.02	0.016	0.01
Random Forest(n_jobs=-1)	10000 x 50	10000	50	-32981.27	1570760.53	1256469.38	0.349	1.57
XGBoost	10000 x 50	10000	50	-17106.95	1065523.01	847391.28	0.700	0.46
XGBoost(tree_method="hist")	10000 x 50	10000	50	-27113.33	1066490.31	844031.86	0.700	0.16
LightGBM	10000 x 50	10000	50	26080.12	1081653.88	858024.93	0.691	0.11
CatBoost	10000 x 50	10000	50	3493.93	497360.62	391704.06	0.935	1.66
TabNet(device_name="cpu")	10000 x 50	10000	50	-9910818.48	10100115.80	9910818.48	-25.927	17.29
AutoGluon	10000 x 50	10000	50	-11637.86	367731.67	287637.47	0.964	91.66
TFDecisionForest	10000 x 50	10000	50	-124.57	1644710.23	1314203.57	0.286	2.01
Linear Regression	10000 x 100	10000	100	-78780.30	2648251.78	2105237.36	0.011	0.04
Random Forest(n_jobs=-1)	10000 x 100	10000	100	-205368.67	2380001.31	1888299.76	0.201	3.08
XGBoost	10000 x 100	10000	100	-163558.59	1976620.91	1561868.10	0.449	0.73
XGBoost(tree_method="hist")	10000 x 100	10000	100	-185439.75	1984058.29	1589939.93	0.445	0.26
LightGBM	10000 x 100	10000	100	-96209.96	1929041.25	1528217.23	0.475	0.15
CatBoost	10000 x 100	10000	100	-73650.44	1304251.27	1032409.35	0.760	2.10
TabNet(device_name="cpu")	10000 x 100	10000	100	-20176568.40	20351450.20	20176568.40	-57.436	18.72
AutoGluon	10000 x 100	10000	100	-77282.73	1014729.35	801305.98	0.855	133.88
TFDecisionForest	10000 x 100	10000	100	-174799.24	2422780.79	1927027.68	0.172	3.36
Linear Regression	100000 x 10	100000	10	10073.91	811926.86	649901.41	0.023	0.01
Random Forest(n_jobs=-1)	100000 x 10	100000	10	-16142.73	246525.58	177137.40	0.910	4.41
XGBoost	100000 x 10	100000	10	-1252.00	106412.23	79081.16	0.983	1.55
XGBoost(tree_method="hist")	100000 x 10	100000	10	-587.08	106800.43	79524.11	0.983	0.12
LightGBM	100000 x 10	100000	10	639.86	160185.80	123825.13	0.962	0.12
CatBoost	100000 x 10	100000	10	-10.82	24461.18	18930.24	0.999	2.57
TabNet(device_name="cpu")	100000 x 10	100000	10	-975664.09	1035231.91	975664.09	-0.589	161.28
AutoGluon	100000 x 10	100000	10	-482.64	13116.62	9832.86	1.000	157.84
TFDecisionForest	100000 x 10	100000	10	-3835.59	364736.17	289294.95	0.803	6.08
Linear Regression	100000 x 25	100000	25	-9271.58	1336746.33	1067179.31	0.017	0.03
Random Forest(n_jobs=-1)	100000 x 25	100000	25	-62652.83	822278.45	643812.02	0.628	10.99
XGBoost	100000 x 25	100000	25	-8738.93	301033.33	235072.36	0.950	2.87
XGBoost(tree_method="hist")	100000 x 25	100000	25	-10334.77	301053.35	235222.89	0.950	0.23
LightGBM	100000 x 25	100000	25	-4101.46	500677.61	381122.69	0.862	0.18
CatBoost	100000 x 25	100000	25	-369.52	71564.01	56193.35	0.997	2.63
TabNet(device_name="cpu")	100000 x 25	100000	25	-4080328.62	4275448.24	4080328.62	-9.059	175.20
AutoGluon	100000 x 25	100000	25	-518.66	32613.11	25410.03	0.999	202.96
TFDecisionForest	100000 x 25	100000	25	-32969.53	1010830.17	805254.57	0.438	9.67
Linear Regression	100000 x 50	100000	50	7770.89	1908455.00	1522569.07	0.019	0.09
Random Forest(n_jobs=-1)	100000 x 50	100000	50	-85457.93	1472749.26	1168950.74	0.416	22.35
XGBoost	100000 x 50	100000	50	-10002.48	704706.76	561649.32	0.866	4.34
XGBoost(tree_method="hist")	100000 x 50	100000	50	-17205.42	721079.84	572829.53	0.860	0.42
LightGBM	100000 x 50	100000	50	-5747.75	1046493.31	825268.00	0.705	0.27
CatBoost	100000 x 50	100000	50	-2741.18	211049.85	167729.56	0.988	3.10
TabNet(device_name="cpu")	100000 x 50	100000	50	-9189086.69	9386189.29	9189086.69	-22.723	187.10
AutoGluon	100000 x 50	100000	50	-2204.66	72803.88	57463.32	0.999	280.10

Model	Dataset	Rows	Columns	ME	RMSE	MAE	R2	Training Time (s)
TFDecisionForest	100000 x 50	100000	50	-33392.98	1646711.69	1312107.43	0.270	15.75
Linear Regression	100000 x 100	100000	100	6964.07	2696942.66	2156090.86	0.018	0.22
Random Forest(n_jobs=-1)	100000 x 100	100000	100	-106316.33	2350451.23	1877387.76	0.254	46.31
XGBoost	100000 x 100	100000	100	-23408.59	1566455.47	1250795.47	0.669	6.99
XGBoost(tree_method="hist")	100000 x 100	100000	100	-24363.67	1559704.04	1243323.85	0.672	0.79
LightGBM	100000 x 100	100000	100	2597.05	1931007.21	1543598.02	0.497	0.47
CatBoost	100000 x 100	100000	100	-537.93	682103.03	544932.55	0.937	4.45
TabNet(device_name="cpu")	100000 x 100	100000	100	inf	inf	inf	inf	inf
AutoGluon	100000 x 100	100000	100	-2642.29	182102.69	145052.71	0.996	494.37
TFDecisionForest	100000 x 100	100000	100	-47991.98	2497561.93	1996611.14	0.158	28.79
Linear Regression	500000 x 10	500000	10	-2986.84	812252.28	650705.27	0.020	0.07
Random Forest(n_jobs=-1)	500000 x 10	500000	10	-15367.72	204640.46	146955.20	0.938	30.95
XGBoost	500000 x 10	500000	10	-349.30	95680.29	71749.27	0.986	7.78
XGBoost(tree_method="hist")	500000 x 10	500000	10	-67.73	96950.21	72837.51	0.986	0.34
LightGBM	500000 x 10	500000	10	190.10	156255.35	121080.71	0.964	0.38
CatBoost	500000 x 10	500000	10	-52.91	21436.62	16883.66	0.999	6.10
TabNet(device_name="cpu")	500000 x 10	500000	10	inf	inf	inf	inf	inf
AutoGluon	500000 x 10	500000	10	-201.22	10941.64	8473.31	1.000	475.90
TFDecisionForest	500000 x 10	500000	10	-5682.82	369110.27	294795.24	0.798	27.08
Linear Regression	500000 x 25	500000	25	-2774.84	1330827.29	1062885.39	0.020	0.26
Random Forest(n_jobs=-1)	500000 x 25	500000	25	-56315.27	744974.15	579974.22	0.693	79.46
XGBoost	500000 x 25	500000	25	-1429.01	254455.13	198607.97	0.964	13.69
XGBoost(tree_method="hist")	500000 x 25	500000	25	-2935.57	254935.29	198602.21	0.964	0.83
LightGBM	500000 x 25	500000	25	-680.02	486160.57	369746.11	0.869	0.56
CatBoost	500000 x 25	500000	25	212.31	55187.67	43696.39	0.998	7.87
TabNet(device_name="cpu")	500000 x 25	500000	25	inf	inf	inf	inf	inf
AutoGluon	500000 x 25	500000	25	51.72	23279.11	18384.22	1.000	663.05
TFDecisionForest	500000 x 25	500000	25	-17245.93	1017022.50	812577.83	0.428	48.55
Linear Regression	500000 x 50	500000	50	-1262.69	1896263.28	1512935.66	0.020	0.72
Random Forest(n_jobs=-1)	500000 x 50	500000	50	-85560.40	1400939.39	1111310.48	0.465	159.52
XGBoost	500000 x 50	500000	50	-4555.30	603832.81	479996.00	0.901	21.78
XGBoost(tree_method="hist")	500000 x 50	500000	50	-3088.16	602263.49	478788.19	0.901	1.60
LightGBM	500000 x 50	500000	50	-1138.74	1041704.77	822955.70	0.704	0.91
CatBoost	500000 x 50	500000	50	184.77	139214.68	110768.20	0.995	11.05
TabNet(device_name="cpu")	500000 x 50	500000	50	inf	inf	inf	inf	inf
AutoGluon	500000 x 50	500000	50	-203.09	46644.50	37048.51	0.999	1084.47
TFDecisionForest	500000 x 50	500000	50	-22234.63	1655356.36	1320480.90	0.253	84.40
Linear Regression	500000 x 100	500000	100	843.56	2699239.47	2154361.92	0.019	2.10
Random Forest(n_jobs=-1)	500000 x 100	500000	100	-113251.15	2303379.04	1834076.78	0.286	323.73
XGBoost	500000 x 100	500000	100	-10108.96	1438218.74	1146755.57	0.721	36.74
XGBoost(tree_method="hist")	500000 x 100	500000	100	-4673.48	1436817.02	1147505.23	0.722	2.80
LightGBM	500000 x 100	500000	100	1039.96	1941270.46	1548030.21	0.493	1.62
CatBoost	500000 x 100	500000	100	-584.45	467589.26	373117.18	0.971	17.24
TabNet(device_name="cpu")	500000 x 100	500000	100	inf	inf	inf	inf	inf
AutoGluon	500000 x 100	500000	100	-835.05	102120.07	81349.70	0.999	1965.21
TFDecisionForest	500000 x 100	500000	100	-27584.65	2518859.79	2010103.78	0.146	158.42
Linear Regression	1000000 x 10	1000000	10	-1350.90	813910.09	652583.90	0.020	0.20
Random Forest(n_jobs=-1)	1000000 x 10	1000000	10	-14197.01	188379.17	134715.96	0.948	70.49
XGBoost	1000000 x 10	1000000	10	-28.41	93760.76	70441.22	0.987	16.16

Model	Dataset	Rows	Columns	ME	RMSE	MAE	R2	Training Time (s)
XGBoost(tree_method="hist")	1000000 x 10	1000000	10	-94.23	96247.70	72177.45	0.986	0.64
LightGBM	1000000 x 10	1000000	10	-336.01	159078.74	123345.99	0.963	0.65
CatBoost	1000000 x 10	1000000	10	-31.84	20711.15	16322.53	0.999	12.01
TabNet(device_name="cpu")	1000000 x 10	1000000	10	inf	inf	inf	inf	inf
AutoGluon	1000000 x 10	1000000	10	-175.35	10414.82	8076.50	1.000	896.14
TFDecisionForest	1000000 x 10	1000000	10	-3227.85	371392.80	296969.12	0.796	55.05
Linear Regression	1000000 x 25	1000000	25	1322.01	1329237.96	1061941.23	0.020	0.56
Random Forest(n_jobs=-1)	1000000 x 25	1000000	25	-51509.47	715335.22	555488.32	0.716	183.06
XGBoost	1000000 x 25	1000000	25	-1175.00	241440.15	188731.12	0.968	26.59
XGBoost(tree_method="hist")	1000000 x 25	1000000	25	-1339.55	240030.48	187443.21	0.968	1.57
LightGBM	1000000 x 25	1000000	25	-428.80	483285.71	367938.47	0.870	1.02
CatBoost	1000000 x 25	1000000	25	-7.36	52156.70	41384.82	0.998	16.12
TabNet(device_name="cpu")	1000000 x 25	1000000	25	inf	inf	inf	inf	inf
AutoGluon	1000000 x 25	1000000	25	-6.81	21870.01	17325.64	1.000	1549.61
TFDecisionForest	1000000 x 25	1000000	25	-10435.43	1022386.56	817376.14	0.420	100.31
Linear Regression	1000000 x 50	1000000	50	5018.15	1901362.36	1519218.67	0.019	1.50
Random Forest(n_jobs=-1)	1000000 x 50	1000000	50	-80564.13	1381029.97	1097119.97	0.483	369.22
XGBoost	1000000 x 50	1000000	50	-2080.84	582675.41	463887.62	0.908	43.77
XGBoost(tree_method="hist")	1000000 x 50	1000000	50	-2075.39	579346.22	461140.97	0.909	3.00
LightGBM	1000000 x 50	1000000	50	1045.63	1042038.72	824493.85	0.705	1.79
CatBoost	1000000 x 50	1000000	50	-157.15	122120.33	97195.37	0.996	22.58
TabNet(device_name="cpu")	1000000 x 50	1000000	50	inf	inf	inf	inf	inf
AutoGluon	1000000 x 50	1000000	50	-211.01	42120.27	33471.35	1.000	2295.33
TFDecisionForest	1000000 x 50	1000000	50	-11078.89	1668441.66	1333444.93	0.245	174.43
Linear Regression	1000000 x 100	1000000	100	3097.86	2695548.87	2149858.04	0.020	4.28
Random Forest(n_jobs=-1)	1000000 x 100	1000000	100	-106422.90	2278260.92	1812874.40	0.300	759.06
XGBoost	1000000 x 100	1000000	100	-3580.07	1402875.28	1118459.53	0.734	74.81
XGBoost(tree_method="hist")	1000000 x 100	1000000	100	-1582.78	1402148.55	1117606.87	0.735	5.20
LightGBM	1000000 x 100	1000000	100	4560.91	1937709.21	1543880.72	0.493	4.78
CatBoost	1000000 x 100	1000000	100	571.15	397152.90	316623.01	0.979	34.88
TabNet(device_name="cpu")	1000000 x 100	1000000	100	inf	inf	inf	inf	inf
AutoGluon	1000000 x 100	1000000	100	-125.90	87712.97	69829.64	0.999	4445.97
TFDecisionForest	1000000 x 100	1000000	100	-16800.77	2523456.07	2012032.48	0.141	332.98
Linear Regression	2000000 x 10	2000000	10	2069.72	812565.11	651440.72	0.020	0.55
Random Forest(n_jobs=-1)	2000000 x 10	2000000	10	-12488.19	173615.43	123795.02	0.955	160.75
XGBoost	2000000 x 10	2000000	10	-248.30	95673.70	72142.76	0.986	32.54
XGBoost(tree_method="hist")	2000000 x 10	2000000	10	-47.31	94891.84	71481.20	0.987	1.45
LightGBM	2000000 x 10	2000000	10	225.48	158573.77	122927.34	0.963	1.17
CatBoost	2000000 x 10	2000000	10	-3.30	20097.48	15847.53	0.999	26.67
TabNet(device_name="cpu")	2000000 x 10	2000000	10	inf	inf	inf	inf	inf
AutoGluon	2000000 x 10	2000000	10	-424.97	10164.45	7898.53	1.000	1707.91
TFDecisionForest	2000000 x 10	2000000	10	-1867.51	374839.79	299561.84	0.792	114.33
Linear Regression	2000000 x 25	2000000	25	115.67	1329592.67	1062936.44	0.020	1.40
Random Forest(n_jobs=-1)	2000000 x 25	2000000	25	-49422.80	689977.13	534925.25	0.736	421.77
XGBoost	2000000 x 25	2000000	25	-817.86	234973.96	183787.02	0.969	54.35
XGBoost(tree_method="hist")	2000000 x 25	2000000	25	-371.84	235141.14	183724.46	0.969	3.43
LightGBM	2000000 x 25	2000000	25	287.10	481096.86	366342.76	0.872	2.37
CatBoost	2000000 x 25	2000000	25	-76.68	51459.75	40855.83	0.999	34.35
TabNet(device_name="cpu")	2000000 x 25	2000000	25	inf	inf	inf	inf	inf

Model	Dataset	Rows	Columns	ME	RMSE	MAE	R2	Training Time (s)
AutoGluon	2000000 x 25	2000000	25	-40.98	21025.66	16668.94	1.000	2981.16
TFDecisionForest	2000000 x 25	2000000	25	-7945.51	1029094.65	823635.91	0.413	211.43
Linear Regression	2000000 x 50	2000000	50	-1765.15	1899509.51	1516870.44	0.020	3.64
Random Forest(n_jobs=-1)	2000000 x 50	2000000	50	-83877.46	1357603.39	1076667.17	0.499	854.79
XGBoost	2000000 x 50	2000000	50	-2152.34	569121.92	452768.27	0.912	91.46
XGBoost(tree_method="hist")	2000000 x 50	2000000	50	-970.19	566936.96	451191.40	0.913	5.63
LightGBM	2000000 x 50	2000000	50	-474.53	1040379.42	822367.53	0.706	5.26
CatBoost	2000000 x 50	2000000	50	-166.76	111218.33	88489.45	0.997	46.11
TabNet(device_name="cpu")	2000000 x 50	2000000	50	inf	inf	inf	inf	inf
AutoGluon	2000000 x 50	2000000	50	-136.56	39333.59	31272.65	1.000	5031.57
TFDecisionForest	2000000 x 50	2000000	50	-11709.52	1673794.86	1336992.65	0.239	371.22
Linear Regression	2000000 x 100	2000000	100	7735.54	2704848.93	2157747.13	0.020	10.89
Random Forest(n_jobs=-1)	2000000 x 100	2000000	100	-103579.32	2268427.48	1805990.99	0.311	1723.72
XGBoost	2000000 x 100	2000000	100	1654.43	1387855.18	1107108.47	0.742	163.97
XGBoost(tree_method="hist")	2000000 x 100	2000000	100	1834.78	1392871.00	1110904.54	0.740	9.05
LightGBM	2000000 x 100	2000000	100	4959.72	1945926.01	1550460.56	0.493	10.60
CatBoost	2000000 x 100	2000000	100	1551.15	344605.78	274676.32	0.984	78.51
TabNet(device_name="cpu")	2000000 x 100	2000000	100	inf	inf	inf	inf	inf
AutoGluon	2000000 x 100	2000000	100	-762537.29	2078876.48	1644504.42	0.421	6332.80
TFDecisionForest	2000000 x 100	2000000	100	-6704.14	2539755.22	2026125.63	0.136	727.17

Model	Dataset	Rows	Columns	ME	RMSE	MAE	R2	Training Time (s)
Linear Regression	1000 x 10	1000	10	78052.45	765303.53	622992.31	0.001	0.00
Random Forest(n_jobs=-1)	1000 x 10	1000	10	29652.69	425999.99	337029.55	0.690	0.16
XGBoost	1000 x 10	1000	10	5080.71	297827.80	240351.59	0.849	0.06
XGBoost(tree_method="hist")	1000 x 10	1000	10	9203.69	313214.37	243429.55	0.833	0.05
LightGBM	1000 x 10	1000	10	10037.01	282829.48	222443.89	0.864	0.07
CatBoost	1000 x 10	1000	10	-6672.11	158101.02	113465.73	0.957	0.95
TabNet(device_name="cpu")	1000 x 10	1000	10	-1772190.00	1930544.40	1772190.00	-5.356	0.05
AutoGluon	1000 x 10	1000	10	9023.49	189110.23	144223.56	0.939	45.70
TFDecisionForest	1000 x 10	1000	10	42431.46	452736.24	363736.77	0.650	4.07
Linear Regression	1000 x 25	1000	25	-136552.89	1365980.07	1115506.05	-0.061	0.00
Random Forest(n_jobs=-1)	1000 x 25	1000	25	-174053.52	1052035.03	851671.54	0.371	0.19
XGBoost	1000 x 25	1000	25	-168417.49	946806.60	750231.47	0.490	0.07
XGBoost(tree_method="hist")	1000 x 25	1000	25	-245081.32	975139.70	755849.59	0.459	0.07
LightGBM	1000 x 25	1000	25	-140657.26	777110.08	614409.59	0.657	0.06
CatBoost	1000 x 25	1000	25	-165450.92	607732.37	478205.93	0.790	1.13
TabNet(device_name="cpu")	1000 x 25	1000	25	-5065835.09	5236598.12	5065835.09	-14.587	0.05
AutoGluon	1000 x 25	1000	25	-141929.31	647112.25	516165.24	0.762	45.19
TFDecisionForest	1000 x 25	1000	25	-146836.53	1071379.23	868233.45	0.348	0.41
Linear Regression	1000 x 50	1000	50	-64135.18	2106516.49	1660066.38	-0.052	0.00
Random Forest(n_jobs=-1)	1000 x 50	1000	50	-141653.02	1795035.96	1430590.58	0.236	0.23
XGBoost	1000 x 50	1000	50	-74114.73	1792225.34	1404795.85	0.238	0.08
XGBoost(tree_method="hist")	1000 x 50	1000	50	-156691.17	1842173.37	1445512.18	0.195	0.10
LightGBM	1000 x 50	1000	50	-48544.05	1501315.08	1228523.29	0.466	0.07
CatBoost	1000 x 50	1000	50	-113237.49	1432735.79	1149575.35	0.513	1.18
TabNet(device_name="cpu")	1000 x 50	1000	50	-10051102.50	10258734.60	10051102.50	-23.957	0.05
AutoGluon	1000 x 50	1000	50	-174059.78	1435270.48	1149887.67	0.511	40.91
TFDecisionForest	1000 x 50	1000	50	-100813.61	1790860.92	1418343.33	0.239	0.62
Linear Regression	1000 x 100	1000	100	44447.19	3083084.41	2411708.88	-0.169	0.02
Random Forest(n_jobs=-1)	1000 x 100	1000	100	-78201.01	2705711.37	2101864.62	0.100	0.30
XGBoost	1000 x 100	1000	100	-192003.28	2888053.80	2290424.79	-0.025	0.11
XGBoost(tree_method="hist")	1000 x 100	1000	100	-384531.38	2961366.18	2337496.95	-0.078	0.17
LightGBM	1000 x 100	1000	100	-94347.12	2515421.26	1972377.71	0.222	0.09
CatBoost	1000 x 100	1000	100	-136525.60	2449299.13	1923970.44	0.262	1.42
TabNet(device_name="cpu")	1000 x 100	1000	100	-20171222.10	20371856.20	20171222.10	-50.020	0.05
AutoGluon	1000 x 100	1000	100	-9856.34	2445119.50	1900571.99	0.265	47.77
TFDecisionForest	1000 x 100	1000	100	-45796.62	2658954.33	2057758.77	0.131	0.99
Linear Regression	10000 x 10	10000	10	-32095.31	800013.85	637688.05	0.027	0.00
Random Forest(n_jobs=-1)	10000 x 10	10000	10	-29507.01	342054.76	250288.21	0.822	0.43
XGBoost	10000 x 10	10000	10	-10434.03	177153.34	127831.66	0.952	0.21
XGBoost(tree_method="hist")	10000 x 10	10000	10	-6462.18	172586.04	123302.69	0.955	0.06
LightGBM	10000 x 10	10000	10	-5690.22	192358.80	147103.63	0.944	0.06
CatBoost	10000 x 10	10000	10	-3224.82	51821.52	35443.43	0.996	1.39
TabNet(device_name="cpu")	10000 x 10	10000	10	-1854878.89	2022458.63	1854878.89	-5.218	14.74
AutoGluon	10000 x 10	10000	10	-3809.27	41723.22	26834.35	0.997	73.08
TFDecisionForest	10000 x 10	10000	10	-24773.15	387457.29	297673.74	0.772	0.97
Linear Regression	10000 x 25	10000	25	17694.35	1332299.29	1064897.72	0.017	0.00
Random Forest(n_jobs=-1)	10000 x 25	10000	25	-54034.14	932491.71	741658.76	0.519	0.83
XGBoost	10000 x 25	10000	25	-24596.12	489590.41	390325.46	0.867	0.33
XGBoost(tree_method="hist")	10000 x 25	10000	25	-28991.53	494655.26	385766.42	0.865	0.09

Model	Dataset	Rows	Columns	ME	RMSE	MAE	R2	Training Time (s)
LightGBM	10000 x 25	10000	25	-11174.34	554389.48	432057.45	0.830	0.09
CatBoost	10000 x 25	10000	25	-7927.88	174113.60	133351.70	0.983	1.53
TabNet(device_name="cpu")	10000 x 25	10000	25	-4863511.08	5045741.43	4863511.08	-13.095	15.91
AutoGluon	10000 x 25	10000	25	-10785.64	133519.42	100027.98	0.990	79.06
TFDecisionForest	10000 x 25	10000	25	-28726.24	1001901.09	801500.45	0.444	1.37
Linear Regression	10000 x 50	10000	50	81611.50	1930394.85	1546614.02	0.016	0.01
Random Forest(n_jobs=-1)	10000 x 50	10000	50	-32981.27	1570760.53	1256469.38	0.349	1.58
XGBoost	10000 x 50	10000	50	-17106.95	1065523.01	847391.28	0.700	0.46
XGBoost(tree_method="hist")	10000 x 50	10000	50	-27113.33	1066490.31	844031.86	0.700	0.15
LightGBM	10000 x 50	10000	50	26080.12	1081653.88	858024.93	0.691	0.11
CatBoost	10000 x 50	10000	50	3493.93	497360.62	391704.06	0.935	1.78
TabNet(device_name="cpu")	10000 x 50	10000	50	-9910818.48	10100115.80	9910818.48	-25.927	17.88
AutoGluon	10000 x 50	10000	50	-11637.86	367731.67	287637.47	0.964	92.33
TFDecisionForest	10000 x 50	10000	50	-124.57	1644710.23	1314203.57	0.286	2.00
Linear Regression	10000 x 100	10000	100	-78780.30	2648251.78	2105237.36	0.011	0.02
Random Forest(n_jobs=-1)	10000 x 100	10000	100	-205368.67	2380001.31	1888299.76	0.201	3.02
XGBoost	10000 x 100	10000	100	-163558.59	1976620.91	1561868.10	0.449	0.72
XGBoost(tree_method="hist")	10000 x 100	10000	100	-185439.75	1984058.29	1589939.93	0.445	0.26
LightGBM	10000 x 100	10000	100	-96209.96	1929041.25	1528217.23	0.475	0.15
CatBoost	10000 x 100	10000	100	-73650.44	1304251.27	1032409.35	0.760	2.20
TabNet(device_name="cpu")	10000 x 100	10000	100	-20176568.40	20351450.20	20176568.40	-57.436	18.90
AutoGluon	10000 x 100	10000	100	-77282.73	1014729.35	801305.98	0.855	133.01
TFDecisionForest	10000 x 100	10000	100	-174799.24	2422780.79	1927027.68	0.172	3.33
Linear Regression	100000 x 10	100000	10	10073.91	811926.86	649901.41	0.023	0.01
Random Forest(n_jobs=-1)	100000 x 10	100000	10	-16142.73	246525.58	177137.40	0.910	4.47
XGBoost	100000 x 10	100000	10	-1252.00	106412.23	79081.16	0.983	1.54
XGBoost(tree_method="hist")	100000 x 10	100000	10	-587.08	106800.43	79524.11	0.983	0.12
LightGBM	100000 x 10	100000	10	639.86	160185.80	123825.13	0.962	0.13
CatBoost	100000 x 10	100000	10	-10.82	24461.18	18930.24	0.999	2.41
TabNet(device_name="cpu")	100000 x 10	100000	10	-975664.09	1035231.91	975664.09	-0.589	159.05
AutoGluon	100000 x 10	100000	10	-482.64	13116.62	9832.86	1.000	158.18
TFDecisionForest	100000 x 10	100000	10	-3835.59	364736.17	289294.95	0.803	5.97
Linear Regression	100000 x 25	100000	25	-9271.58	1336746.33	1067179.31	0.017	0.04
Random Forest(n_jobs=-1)	100000 x 25	100000	25	-62652.83	822278.45	643812.02	0.628	11.47
XGBoost	100000 x 25	100000	25	-8738.93	301033.33	235072.36	0.950	2.85
XGBoost(tree_method="hist")	100000 x 25	100000	25	-10334.77	301053.35	235222.89	0.950	0.24
LightGBM	100000 x 25	100000	25	-4101.46	500677.61	381122.69	0.862	0.18
CatBoost	100000 x 25	100000	25	-369.52	71564.01	56193.35	0.997	2.79
TabNet(device_name="cpu")	100000 x 25	100000	25	-4080328.62	4275448.24	4080328.62	-9.059	174.83
AutoGluon	100000 x 25	100000	25	-518.66	32613.11	25410.03	0.999	201.46
TFDecisionForest	100000 x 25	100000	25	-32969.53	1010830.17	805254.57	0.438	9.60
Linear Regression	100000 x 50	100000	50	7770.89	1908455.00	1522569.07	0.019	0.08
Random Forest(n_jobs=-1)	100000 x 50	100000	50	-85457.93	1472749.26	1168950.74	0.416	22.61
XGBoost	100000 x 50	100000	50	-10002.48	704706.76	561649.32	0.866	4.30
XGBoost(tree_method="hist")	100000 x 50	100000	50	-17205.42	721079.84	572829.53	0.860	0.42
LightGBM	100000 x 50	100000	50	-5747.75	1046493.31	825268.00	0.705	0.27
CatBoost	100000 x 50	100000	50	-2741.18	211049.85	167729.56	0.988	3.24
TabNet(device_name="cpu")	100000 x 50	100000	50	-9189086.69	9386189.29	9189086.69	-22.723	184.49
AutoGluon	100000 x 50	100000	50	-2204.66	72803.88	57463.32	0.999	282.29

Model	Dataset	Rows	Columns	ME	RMSE	MAE	R2	Training Time (s)
TFDecisionForest	100000 x 50	100000	50	-33392.98	1646711.69	1312107.43	0.270	15.84
Linear Regression	100000 x 100	100000	100	6964.07	2696942.66	2156090.86	0.018	0.25
Random Forest(n_jobs=-1)	100000 x 100	100000	100	-106316.33	2350451.23	1877387.76	0.254	46.50
XGBoost	100000 x 100	100000	100	-23408.59	1566455.47	1250795.47	0.669	7.03
XGBoost(tree_method="hist")	100000 x 100	100000	100	-24363.67	1559704.04	1243323.85	0.672	0.78
LightGBM	100000 x 100	100000	100	2597.05	1931007.21	1543598.02	0.497	0.45
CatBoost	100000 x 100	100000	100	-537.93	682103.03	544932.55	0.937	4.74
TabNet(device_name="cpu")	100000 x 100	100000	100	inf	inf	inf	inf	inf
AutoGluon	100000 x 100	100000	100	-2642.29	182102.69	145052.71	0.996	493.63
TFDecisionForest	100000 x 100	100000	100	-47991.98	2497561.93	1996611.14	0.158	29.16
Linear Regression	500000 x 10	500000	10	-2986.84	812252.28	650705.27	0.020	0.07
Random Forest(n_jobs=-1)	500000 x 10	500000	10	-15367.72	204640.46	146955.20	0.938	30.58
XGBoost	500000 x 10	500000	10	-349.30	95680.29	71749.27	0.986	7.71
XGBoost(tree_method="hist")	500000 x 10	500000	10	-67.73	96950.21	72837.51	0.986	0.33
LightGBM	500000 x 10	500000	10	190.10	156255.35	121080.71	0.964	0.37
CatBoost	500000 x 10	500000	10	-52.91	21436.62	16883.66	0.999	6.28
TabNet(device_name="cpu")	500000 x 10	500000	10	inf	inf	inf	inf	inf
AutoGluon	500000 x 10	500000	10	-201.22	10941.64	8473.31	1.000	475.16
TFDecisionForest	500000 x 10	500000	10	-5682.82	369110.27	294795.24	0.798	26.95
Linear Regression	500000 x 25	500000	25	-2774.84	1330827.29	1062885.39	0.020	0.23
Random Forest(n_jobs=-1)	500000 x 25	500000	25	-56315.27	744974.15	579974.22	0.693	79.26
XGBoost	500000 x 25	500000	25	-1429.01	254455.13	198607.97	0.964	13.68
XGBoost(tree_method="hist")	500000 x 25	500000	25	-2935.57	254935.29	198602.21	0.964	0.83
LightGBM	500000 x 25	500000	25	-680.02	486160.57	369746.11	0.869	0.57
CatBoost	500000 x 25	500000	25	212.31	55187.67	43696.39	0.998	7.34
TabNet(device_name="cpu")	500000 x 25	500000	25	inf	inf	inf	inf	inf
AutoGluon	500000 x 25	500000	25	51.72	23279.11	18384.22	1.000	644.31
TFDecisionForest	500000 x 25	500000	25	-17245.93	1017022.50	812577.83	0.428	48.49
Linear Regression	500000 x 50	500000	50	-1262.69	1896263.28	1512935.66	0.020	0.59
Random Forest(n_jobs=-1)	500000 x 50	500000	50	-85560.40	1400939.39	1111310.48	0.465	159.20
XGBoost	500000 x 50	500000	50	-4555.30	603832.81	479996.00	0.901	21.73
XGBoost(tree_method="hist")	500000 x 50	500000	50	-3088.16	602263.49	478788.19	0.901	1.53
LightGBM	500000 x 50	500000	50	-1138.74	1041704.77	822955.70	0.704	0.91
CatBoost	500000 x 50	500000	50	184.77	139214.68	110768.20	0.995	10.07
TabNet(device_name="cpu")	500000 x 50	500000	50	inf	inf	inf	inf	inf
AutoGluon	500000 x 50	500000	50	-203.09	46644.50	37048.51	0.999	1050.90
TFDecisionForest	500000 x 50	500000	50	-22234.63	1655356.36	1320480.90	0.253	84.31
Linear Regression	500000 x 100	500000	100	843.56	2699239.47	2154361.92	0.019	1.65
Random Forest(n_jobs=-1)	500000 x 100	500000	100	-113251.15	2303379.04	1834076.78	0.286	321.04
XGBoost	500000 x 100	500000	100	-10108.96	1438218.74	1146755.57	0.721	36.51
XGBoost(tree_method="hist")	500000 x 100	500000	100	-4673.48	1436817.02	1147505.23	0.722	2.67
LightGBM	500000 x 100	500000	100	1039.96	1941270.46	1548030.21	0.493	1.61
CatBoost	500000 x 100	500000	100	-584.45	467589.26	373117.18	0.971	16.71
TabNet(device_name="cpu")	500000 x 100	500000	100	inf	inf	inf	inf	inf
AutoGluon	500000 x 100	500000	100	-835.05	102120.07	81349.70	0.999	1878.15
TFDecisionForest	500000 x 100	500000	100	-27584.65	2518859.79	2010103.78	0.146	162.64
Linear Regression	1000000 x 10	1000000	10	-1350.90	813910.09	652583.90	0.020	0.19
Random Forest(n_jobs=-1)	1000000 x 10	1000000	10	-14197.01	188379.17	134715.96	0.948	70.60
XGBoost	1000000 x 10	1000000	10	-28.41	93760.76	70441.22	0.987	16.27

Model	Dataset	Rows	Columns	ME	RMSE	MAE	R2	Training Time (s)
XGBoost(tree_method="hist")	1000000 x 10	1000000	10	-94.23	96247.70	72177.45	0.986	0.63
LightGBM	1000000 x 10	1000000	10	-336.01	159078.74	123345.99	0.963	0.67
CatBoost	1000000 x 10	1000000	10	-31.84	20711.15	16322.53	0.999	11.78
TabNet(device_name="cpu")	1000000 x 10	1000000	10	inf	inf	inf	inf	inf
AutoGluon	1000000 x 10	1000000	10	-175.35	10414.82	8076.50	1.000	891.77
TFDecisionForest	1000000 x 10	1000000	10	-3227.85	371392.80	296969.12	0.796	55.15
Linear Regression	1000000 x 25	1000000	25	1322.01	1329237.96	1061941.23	0.020	0.52
Random Forest(n_jobs=-1)	1000000 x 25	1000000	25	-51509.47	715335.22	555488.32	0.716	188.98
XGBoost	1000000 x 25	1000000	25	-1175.00	241440.15	188731.12	0.968	26.99
XGBoost(tree_method="hist")	1000000 x 25	1000000	25	-1339.55	240030.48	187443.21	0.968	1.52
LightGBM	1000000 x 25	1000000	25	-428.80	483285.71	367938.47	0.870	1.03
CatBoost	1000000 x 25	1000000	25	-7.36	52156.70	41384.82	0.998	14.97
TabNet(device_name="cpu")	1000000 x 25	1000000	25	inf	inf	inf	inf	inf
AutoGluon	1000000 x 25	1000000	25	-6.81	21870.01	17325.64	1.000	1518.26
TFDecisionForest	1000000 x 25	1000000	25	-10435.43	1022386.56	817376.14	0.420	101.28
Linear Regression	1000000 x 50	1000000	50	5018.15	1901362.36	1519218.67	0.019	1.26
Random Forest(n_jobs=-1)	1000000 x 50	1000000	50	-80564.13	1381029.97	1097119.97	0.483	371.90
XGBoost	1000000 x 50	1000000	50	-2080.84	582675.41	463887.62	0.908	44.95
XGBoost(tree_method="hist")	1000000 x 50	1000000	50	-2075.39	579346.22	461140.97	0.909	2.93
LightGBM	1000000 x 50	1000000	50	1045.63	1042038.72	824493.85	0.705	1.72
CatBoost	1000000 x 50	1000000	50	-157.15	122120.33	97195.37	0.996	20.83
TabNet(device_name="cpu")	1000000 x 50	1000000	50	inf	inf	inf	inf	inf
AutoGluon	1000000 x 50	1000000	50	-211.01	42120.27	33471.35	1.000	2220.84
TFDecisionForest	1000000 x 50	1000000	50	-11078.89	1668441.66	1333444.93	0.245	175.13
Linear Regression	1000000 x 100	1000000	100	3097.86	2695548.87	2149858.04	0.020	3.51
Random Forest(n_jobs=-1)	1000000 x 100	1000000	100	-106422.90	2278260.92	1812874.40	0.300	737.26
XGBoost	1000000 x 100	1000000	100	-3580.07	1402875.28	1118459.53	0.734	76.20
XGBoost(tree_method="hist")	1000000 x 100	1000000	100	-1582.78	1402148.55	1117606.87	0.735	4.94
LightGBM	1000000 x 100	1000000	100	4560.91	1937709.21	1543880.72	0.493	3.98
CatBoost	1000000 x 100	1000000	100	571.15	397152.90	316623.01	0.979	30.36
TabNet(device_name="cpu")	1000000 x 100	1000000	100	inf	inf	inf	inf	inf
AutoGluon	1000000 x 100	1000000	100	-125.90	87712.97	69829.64	0.999	4134.11
TFDecisionForest	1000000 x 100	1000000	100	-16800.77	2523456.07	2012032.48	0.141	337.02
Linear Regression	2000000 x 10	2000000	10	2069.72	812565.11	651440.72	0.020	0.52
Random Forest(n_jobs=-1)	2000000 x 10	2000000	10	-12488.19	173615.43	123795.02	0.955	157.59
XGBoost	2000000 x 10	2000000	10	-248.30	95673.70	72142.76	0.986	34.13
XGBoost(tree_method="hist")	2000000 x 10	2000000	10	-47.31	94891.84	71481.20	0.987	1.30
LightGBM	2000000 x 10	2000000	10	225.48	158573.77	122927.34	0.963	1.14
CatBoost	2000000 x 10	2000000	10	-3.30	20097.48	15847.53	0.999	22.79
TabNet(device_name="cpu")	2000000 x 10	2000000	10	inf	inf	inf	inf	inf
AutoGluon	2000000 x 10	2000000	10	-424.97	10164.45	7898.53	1.000	1619.53
TFDecisionForest	2000000 x 10	2000000	10	-1867.51	374839.79	299561.84	0.792	111.53
Linear Regression	2000000 x 25	2000000	25	115.67	1329592.67	1062936.44	0.020	1.12
Random Forest(n_jobs=-1)	2000000 x 25	2000000	25	-49422.80	689977.13	534925.25	0.736	409.44
XGBoost	2000000 x 25	2000000	25	-817.86	234973.96	183787.02	0.969	58.01
XGBoost(tree_method="hist")	2000000 x 25	2000000	25	-371.84	235141.14	183724.46	0.969	3.12
LightGBM	2000000 x 25	2000000	25	287.10	481096.86	366342.76	0.872	2.14
CatBoost	2000000 x 25	2000000	25	-76.68	51459.75	40855.83	0.999	29.18
TabNet(device_name="cpu")	2000000 x 25	2000000	25	inf	inf	inf	inf	inf

Model	Dataset	Rows	Columns	ME	RMSE	MAE	R2	Training Time (s)
AutoGluon	2000000 x 25	2000000	25	-40.98	21025.66	16668.94	1.000	2812.89
TFDecisionForest	2000000 x 25	2000000	25	-7945.51	1029094.65	823635.91	0.413	211.79
Linear Regression	2000000 x 50	2000000	50	-1765.15	1899509.51	1516870.44	0.020	3.07
Random Forest(n_jobs=-1)	2000000 x 50	2000000	50	-83877.46	1357603.39	1076667.17	0.499	842.75
XGBoost	2000000 x 50	2000000	50	-2152.34	569121.92	452768.27	0.912	97.45
XGBoost(tree_method="hist")	2000000 x 50	2000000	50	-970.19	566936.96	451191.40	0.913	5.51
LightGBM	2000000 x 50	2000000	50	-474.53	1040379.42	822367.53	0.706	4.61
CatBoost	2000000 x 50	2000000	50	-166.76	111218.33	88489.45	0.997	41.64
TabNet(device_name="cpu")	2000000 x 50	2000000	50	inf	inf	inf	inf	inf
AutoGluon	2000000 x 50	2000000	50	-136.56	39333.59	31272.65	1.000	4614.68
TFDecisionForest	2000000 x 50	2000000	50	-11709.52	1673794.86	1336992.65	0.239	372.13
Linear Regression	2000000 x 100	2000000	100	7735.54	2704848.93	2157747.13	0.020	8.80
Random Forest(n_jobs=-1)	2000000 x 100	2000000	100	-103579.32	2268427.48	1805990.99	0.311	1761.31
XGBoost	2000000 x 100	2000000	100	1654.43	1387855.18	1107108.47	0.742	176.00
XGBoost(tree_method="hist")	2000000 x 100	2000000	100	1834.78	1392871.00	1110904.54	0.740	9.25
LightGBM	2000000 x 100	2000000	100	4959.72	1945926.01	1550460.56	0.493	9.14
CatBoost	2000000 x 100	2000000	100	1551.15	344605.78	274676.32	0.984	73.08
TabNet(device_name="cpu")	2000000 x 100	2000000	100	inf	inf	inf	inf	inf
AutoGluon	2000000 x 100	2000000	100	-762537.29	2078876.48	1644504.42	0.421	5812.06
TFDecisionForest	2000000 x 100	2000000	100	-6704.14	2539755.22	2026125.63	0.136	731.43

Model	Dataset	Rows	Columns	ME	RMSE	MAE	R2	Training Time (s)
Linear Regression	1000 x 10	1000	10	78052.45	765303.53	622992.31	0.001	0.15
Random Forest(n_jobs=-1)	1000 x 10	1000	10	31341.95	431717.11	343954.07	0.682	0.19
XGBoost	1000 x 10	1000	10	5080.71	297827.80	240351.59	0.849	0.27
XGBoost(tree_method="hist")	1000 x 10	1000	10	9203.69	313214.37	243429.55	0.833	0.06
LightGBM	1000 x 10	1000	10	10037.01	282829.48	222443.89	0.864	0.24
CatBoost	1000 x 10	1000	10	-6672.11	158101.02	113465.73	0.957	1.29
TabNet(device_name="cpu")	1000 x 10	1000	10	-1772190.00	1930544.40	1772190.00	-5.356	0.69
AutoGluon	1000 x 10	1000	10	9023.49	189110.23	144223.56	0.939	48.20
TFDecisionForest	1000 x 10	1000	10	42431.46	452736.24	363736.77	0.650	4.32
Linear Regression	1000 x 20	1000	20	7687.68	1200592.60	945246.35	-0.008	0.02
Random Forest(n_jobs=-1)	1000 x 20	1000	20	-39050.34	926735.28	735331.19	0.399	0.19
XGBoost	1000 x 20	1000	20	-55718.82	814148.58	654667.23	0.536	0.09
XGBoost(tree_method="hist")	1000 x 20	1000	20	-52558.34	791064.03	631132.79	0.562	0.06
LightGBM	1000 x 20	1000	20	-35647.78	653913.37	504249.74	0.701	0.06
CatBoost	1000 x 20	1000	20	-54885.55	455378.05	349669.89	0.855	1.07
TabNet(device_name="cpu")	1000 x 20	1000	20	-3949856.35	4126908.06	3949856.35	-10.910	0.07
AutoGluon	1000 x 20	1000	20	-61320.60	499817.20	384228.44	0.825	41.30
TFDecisionForest	1000 x 20	1000	20	-29694.07	916308.61	726762.60	0.413	0.41
Linear Regression	1000 x 50	1000	50	-64135.18	2106516.49	1660066.38	-0.052	0.05
Random Forest(n_jobs=-1)	1000 x 50	1000	50	-132064.31	1804398.85	1445326.05	0.228	0.24
XGBoost	1000 x 50	1000	50	-74114.73	1792225.34	1404795.85	0.238	0.10
XGBoost(tree_method="hist")	1000 x 50	1000	50	-156691.17	1842173.37	1445512.18	0.195	0.10
LightGBM	1000 x 50	1000	50	-48544.05	1501315.08	1228523.29	0.466	0.09
CatBoost	1000 x 50	1000	50	-113237.49	1432735.79	1149575.35	0.513	1.16
TabNet(device_name="cpu")	1000 x 50	1000	50	-10051102.49	10258734.62	10051102.49	-23.957	0.08
AutoGluon	1000 x 50	1000	50	-174059.78	1435270.48	1149887.67	0.511	42.09
TFDecisionForest	1000 x 50	1000	50	-100813.61	1790860.92	1418343.33	0.239	0.63
Linear Regression	1000 x 100	1000	100	44447.19	3083084.41	2411708.88	-0.169	0.16
Random Forest(n_jobs=-1)	1000 x 100	1000	100	-81284.34	2658640.63	2068300.71	0.131	0.30
XGBoost	1000 x 100	1000	100	-192003.28	2888053.80	2290424.79	-0.025	0.13
XGBoost(tree_method="hist")	1000 x 100	1000	100	-384531.38	2961366.18	2337496.95	-0.078	0.17
LightGBM	1000 x 100	1000	100	-94347.12	2515421.26	1972377.71	0.222	0.10
CatBoost	1000 x 100	1000	100	-136525.60	2449299.13	1923970.44	0.262	1.50
TabNet(device_name="cpu")	1000 x 100	1000	100	-20171222.11	20371856.22	20171222.11	-50.020	0.10
AutoGluon	1000 x 100	1000	100	-9856.34	2445119.50	1900571.99	0.265	49.89
TFDecisionForest	1000 x 100	1000	100	-45796.62	2658954.33	2057758.77	0.131	1.02
Linear Regression	10000 x 10	10000	10	-32095.31	800013.85	637688.05	0.027	0.00
Random Forest(n_jobs=-1)	10000 x 10	10000	10	-26950.99	335395.01	246203.46	0.829	0.47
XGBoost	10000 x 10	10000	10	-10434.03	177153.34	127831.66	0.952	0.22
XGBoost(tree_method="hist")	10000 x 10	10000	10	-6462.18	172586.04	123302.68	0.955	0.06
LightGBM	10000 x 10	10000	10	-5690.22	192358.80	147103.63	0.944	0.07
CatBoost	10000 x 10	10000	10	-3224.82	51821.52	35443.43	0.996	1.36
TabNet(device_name="cpu")	10000 x 10	10000	10	-1854878.89	2022458.63	1854878.89	-5.218	15.17
AutoGluon	10000 x 10	10000	10	-3809.27	41723.22	26834.35	0.997	73.10
TFDecisionForest	10000 x 10	10000	10	-24773.15	387457.29	297673.74	0.772	1.11
Linear Regression	10000 x 20	10000	20	532.32	1184458.81	946445.98	0.034	0.01
Random Forest(n_jobs=-1)	10000 x 20	10000	20	-57215.65	775574.21	604724.58	0.586	0.67
XGBoost	10000 x 20	10000	20	-25636.79	386228.92	296138.61	0.897	0.25
XGBoost(tree_method="hist")	10000 x 20	10000	20	-33727.49	377523.10	291618.21	0.902	0.10

Model	Dataset	Rows	Columns	ME	RMSE	MAE	R2	Training Time (s)
LightGBM	10000 x 20	10000	20	-24012.44	435113.87	327493.73	0.870	0.08
CatBoost	10000 x 20	10000	20	-6853.89	125500.62	93763.41	0.989	1.48
TabNet(device_name="cpu")	10000 x 20	10000	20	-3860562.23	4043882.17	3860562.23	-10.266	15.56
AutoGluon	10000 x 20	10000	20	-9513.27	97951.50	70584.49	0.993	76.76
TFDecisionForest	10000 x 20	10000	20	-44184.84	848048.29	670520.75	0.505	1.38
Linear Regression	10000 x 50	10000	50	81611.50	1930394.85	1546614.02	0.016	0.05
Random Forest(n_jobs=-1)	10000 x 50	10000	50	-27046.36	1569546.45	1255942.48	0.350	1.54
XGBoost	10000 x 50	10000	50	-17106.95	1065523.01	847391.28	0.700	0.48
XGBoost(tree_method="hist")	10000 x 50	10000	50	-27113.33	1066490.31	844031.86	0.700	0.14
LightGBM	10000 x 50	10000	50	26080.12	1081653.88	858024.93	0.691	0.11
CatBoost	10000 x 50	10000	50	3493.93	497360.62	391704.06	0.935	1.86
TabNet(device_name="cpu")	10000 x 50	10000	50	-9910818.48	10100115.79	9910818.48	-25.927	16.89
AutoGluon	10000 x 50	10000	50	-11637.86	367731.67	287637.47	0.964	94.62
TFDecisionForest	10000 x 50	10000	50	-124.57	1644710.23	1314203.57	0.286	2.18
Linear Regression	10000 x 100	10000	100	-78780.30	2648251.78	2105237.36	0.011	0.15
Random Forest(n_jobs=-1)	10000 x 100	10000	100	-205368.67	2380001.31	1888299.76	0.201	3.00
XGBoost	10000 x 100	10000	100	-163558.59	1976620.91	1561868.10	0.449	0.74
XGBoost(tree_method="hist")	10000 x 100	10000	100	-185439.75	1984058.29	1589939.93	0.445	0.26
LightGBM	10000 x 100	10000	100	-96209.96	1929041.25	1528217.23	0.475	0.16
CatBoost	10000 x 100	10000	100	-73650.44	1304251.27	1032409.35	0.760	2.23
TabNet(device_name="cpu")	10000 x 100	10000	100	-20176568.38	20351450.21	20176568.38	-57.436	18.62
AutoGluon	10000 x 100	10000	100	-77282.73	1014729.35	801305.98	0.855	145.00
TFDecisionForest	10000 x 100	10000	100	-174799.24	2422780.79	1927027.68	0.172	3.53
Linear Regression	100000 x 10	100000	10	10073.91	811926.86	649901.41	0.023	0.01
Random Forest(n_jobs=-1)	100000 x 10	100000	10	-16142.73	246525.58	177137.40	0.910	4.52
XGBoost	100000 x 10	100000	10	-1252.00	106412.23	79081.16	0.983	1.55
XGBoost(tree_method="hist")	100000 x 10	100000	10	-587.08	106800.43	79524.11	0.983	0.12
LightGBM	100000 x 10	100000	10	639.86	160185.80	123825.13	0.962	0.13
CatBoost	100000 x 10	100000	10	-10.82	24461.18	18930.24	0.999	2.47
TabNet(device_name="cpu")	100000 x 10	100000	10	-975664.09	1035231.91	975664.09	-0.589	155.85
AutoGluon	100000 x 10	100000	10	-482.64	13116.62	9832.86	1.000	168.03
TFDecisionForest	100000 x 10	100000	10	-3835.59	364736.17	289294.95	0.803	6.59
Linear Regression	100000 x 20	100000	20	-1801.69	1179756.21	941828.49	0.021	0.03
Random Forest(n_jobs=-1)	100000 x 20	100000	20	-50002.44	642168.34	496550.82	0.710	9.57
XGBoost	100000 x 20	100000	20	-5310.51	236057.82	182787.31	0.961	1.90
XGBoost(tree_method="hist")	100000 x 20	100000	20	-6624.25	229802.63	177088.33	0.963	0.21
LightGBM	100000 x 20	100000	20	-3262.52	379675.50	286528.49	0.899	0.17
CatBoost	100000 x 20	100000	20	-277.53	52470.04	41251.36	0.998	2.73
TabNet(device_name="cpu")	100000 x 20	100000	20	-3191846.35	3361787.42	3191846.35	-6.948	163.68
AutoGluon	100000 x 20	100000	20	-540.19	25553.59	19821.29	1.000	196.87
TFDecisionForest	100000 x 20	100000	20	-26912.48	832062.48	663224.13	0.513	8.87
Linear Regression	100000 x 50	100000	50	7770.89	1908455.00	1522569.07	0.019	0.18
Random Forest(n_jobs=-1)	100000 x 50	100000	50	-85457.93	1472749.26	1168950.74	0.416	22.89
XGBoost	100000 x 50	100000	50	-10002.48	704706.76	561649.32	0.866	4.42
XGBoost(tree_method="hist")	100000 x 50	100000	50	-17205.42	721079.83	572829.53	0.860	0.42
LightGBM	100000 x 50	100000	50	-5747.75	1046493.31	825268.00	0.705	0.29
CatBoost	100000 x 50	100000	50	-2741.18	211049.85	167729.56	0.988	3.48
TabNet(device_name="cpu")	100000 x 50	100000	50	-9189086.69	9386189.29	9189086.69	-22.723	181.00
AutoGluon	100000 x 50	100000	50	-2204.66	72803.88	57463.32	0.999	295.16

Model	Dataset	Rows	Columns	ME	RMSE	MAE	R2	Training Time (s)
TFDecisionForest	100000 x 50	100000	50	-33392.98	1646711.69	1312107.43	0.270	17.07
Linear Regression	100000 x 100	100000	100	6964.07	2696942.66	2156090.86	0.018	0.53
Random Forest(n_jobs=-1)	100000 x 100	100000	100	-106316.33	2350451.23	1877387.76	0.254	47.66
XGBoost	100000 x 100	100000	100	-23408.59	1566455.47	1250795.47	0.669	7.21
XGBoost(tree_method="hist")	100000 x 100	100000	100	-24363.66	1559704.04	1243323.85	0.672	0.86
LightGBM	100000 x 100	100000	100	2597.05	1931007.21	1543598.02	0.497	0.49
CatBoost	100000 x 100	100000	100	-537.93	682103.03	544932.55	0.937	5.92
TabNet(device_name="cpu")	100000 x 100	100000	100	-18954467.77	19149805.05	18954467.77	-48.490	198.84
AutoGluon	100000 x 100	100000	100	-2642.29	182102.69	145052.71	0.996	552.82
TFDecisionForest	100000 x 100	100000	100	-47991.98	2497561.93	1996611.14	0.158	31.58
Linear Regression	1000000 x 10	1000000	10	-1350.90	813910.09	652583.89	0.020	0.25
Random Forest(n_jobs=-1)	1000000 x 10	1000000	10	-14197.01	188379.17	134715.96	0.948	95.02
XGBoost	1000000 x 10	1000000	10	-28.41	93760.76	70441.22	0.987	17.08
XGBoost(tree_method="hist")	1000000 x 10	1000000	10	-94.23	96247.70	72177.45	0.986	0.78
LightGBM	1000000 x 10	1000000	10	-336.01	159078.74	123345.99	0.963	0.70
CatBoost	1000000 x 10	1000000	10	-31.84	20711.15	16322.53	0.999	21.37
TabNet(device_name="cpu")	1000000 x 10	1000000	10	inf	inf	inf	inf	inf
AutoGluon	1000000 x 10	1000000	10	-175.35	10414.82	8076.50	1.000	1189.12
TFDecisionForest	1000000 x 10	1000000	10	-3227.85	371392.80	296969.12	0.796	95.05
Linear Regression	1000000 x 20	1000000	20	-1317.93	1184452.30	946547.30	0.020	0.63
Random Forest(n_jobs=-1)	1000000 x 20	1000000	20	-41637.89	550752.47	421036.11	0.788	192.56
XGBoost	1000000 x 20	1000000	20	-1897.46	194335.80	150062.39	0.974	21.84
XGBoost(tree_method="hist")	1000000 x 20	1000000	20	-740.20	197823.35	152902.57	0.973	1.51
LightGBM	1000000 x 20	1000000	20	-1008.31	371979.31	279778.50	0.903	1.01
CatBoost	1000000 x 20	1000000	20	24.35	42221.67	33482.19	0.999	26.56
TabNet(device_name="cpu")	1000000 x 20	1000000	20	inf	inf	inf	inf	inf
AutoGluon	1000000 x 20	1000000	20	-161.30	18135.58	14332.60	1.000	1774.88
TFDecisionForest	1000000 x 20	1000000	20	-9846.88	851657.85	681207.16	0.493	151.41
Linear Regression	1000000 x 50	1000000	50	5018.15	1901362.36	1519218.67	0.019	2.60
Random Forest(n_jobs=-1)	1000000 x 50	1000000	50	-80564.13	1381029.97	1097119.97	0.483	500.34
XGBoost	1000000 x 50	1000000	50	-2080.84	582675.41	463887.62	0.908	47.03
XGBoost(tree_method="hist")	1000000 x 50	1000000	50	-2075.39	579346.22	461140.97	0.909	3.40
LightGBM	1000000 x 50	1000000	50	1045.63	1042038.72	824493.85	0.705	2.53
CatBoost	1000000 x 50	1000000	50	-157.15	122120.33	97195.37	0.996	38.95
TabNet(device_name="cpu")	1000000 x 50	1000000	50	inf	inf	inf	inf	inf
AutoGluon	1000000 x 50	1000000	50	-211.01	42120.27	33471.35	1.000	3574.20
TFDecisionForest	1000000 x 50	1000000	50	-11078.89	1668441.66	1333444.93	0.245	328.46
Linear Regression	1000000 x 100	1000000	100	3097.86	2695548.87	2149858.04	0.020	8.25
Random Forest(n_jobs=-1)	1000000 x 100	1000000	100	-106422.90	2278260.92	1812874.40	0.300	1007.48
XGBoost	1000000 x 100	1000000	100	-3580.07	1402875.28	1118459.53	0.734	81.40
XGBoost(tree_method="hist")	1000000 x 100	1000000	100	-1582.78	1402148.55	1117606.87	0.735	5.93
LightGBM	1000000 x 100	1000000	100	4560.91	1937709.21	1543880.72	0.493	8.88
CatBoost	1000000 x 100	1000000	100	571.15	397152.90	316623.01	0.979	60.96
TabNet(device_name="cpu")	1000000 x 100	1000000	100	inf	inf	inf	inf	inf
AutoGluon	1000000 x 100	1000000	100	-125.90	87712.97	69829.64	0.999	7489.93
TFDecisionForest	1000000 x 100	1000000	100	-16800.77	2523456.07	2012032.48	0.141	654.50

9	Dataset	Rows	Columns	ME	RMSE	MAE	R2	Training Time (s)
Linear Regression	1000 x 10	1000	10	78052.45	765303.53	622992.31	0.001	0.00
Random Forest(n_jobs=-1)	1000 x 10	1000	10	31341.95	431717.11	343954.07	0.682	0.17
XGBoost	1000 x 10	1000	10	5080.71	297827.80	240351.59	0.849	0.20
XGBoost(tree_method="hist")	1000 x 10	1000	10	9203.69	313214.37	243429.55	0.833	0.05
LightGBM	1000 x 10	1000	10	10037.01	282829.48	222443.89	0.864	0.09
CatBoost	1000 x 10	1000	10	-6672.11	158101.02	113465.73	0.957	1.01
TabNet(device_name="cpu")	1000 x 10	1000	10	-1772190.00	1930544.40	1772190.00	-5.356	0.08
AutoGluon	1000 x 10	1000	10	9023.49	189110.23	144223.56	0.939	43.65
TFDecisionForest	1000 x 10	1000	10	42431.46	452736.24	363736.77	0.650	2.87
Linear Regression	1000 x 20	1000	20	7687.68	1200592.60	945246.35	-0.008	0.00
Random Forest(n_jobs=-1)	1000 x 20	1000	20	-39050.34	926735.28	735331.19	0.399	0.19
XGBoost	1000 x 20	1000	20	-55718.82	814148.58	654667.23	0.536	0.08
XGBoost(tree_method="hist")	1000 x 20	1000	20	-52558.34	791064.03	631132.79	0.562	0.06
LightGBM	1000 x 20	1000	20	-35647.78	653913.37	504249.74	0.701	0.06
CatBoost	1000 x 20	1000	20	-54885.55	455378.05	349669.89	0.855	1.08
TabNet(device_name="cpu")	1000 x 20	1000	20	-3949856.35	4126908.06	3949856.35	-10.910	0.07
AutoGluon	1000 x 20	1000	20	-61320.60	499817.20	384228.44	0.825	39.95
TFDecisionForest	1000 x 20	1000	20	-29694.07	916308.61	726762.60	0.413	0.42
Linear Regression	1000 x 50	1000	50	-64135.18	2106516.49	1660066.38	-0.052	0.03
Random Forest(n_jobs=-1)	1000 x 50	1000	50	-132064.31	1804398.85	1445326.05	0.228	0.23
XGBoost	1000 x 50	1000	50	-74114.73	1792225.34	1404795.85	0.238	0.09
XGBoost(tree_method="hist")	1000 x 50	1000	50	-156691.17	1842173.37	1445512.18	0.195	0.11
LightGBM	1000 x 50	1000	50	-48544.05	1501315.08	1228523.29	0.466	0.08
CatBoost	1000 x 50	1000	50	-113237.49	1432735.79	1149575.35	0.513	1.14
TabNet(device_name="cpu")	1000 x 50	1000	50	-10051102.49	10258734.62	10051102.49	-23.957	0.07
AutoGluon	1000 x 50	1000	50	-174059.78	1435270.48	1149887.67	0.511	42.45
TFDecisionForest	1000 x 50	1000	50	-100813.61	1790860.92	1418343.33	0.239	0.62
Linear Regression	1000 x 100	1000	100	44447.19	3083084.41	2411708.88	-0.169	0.06
Random Forest(n_jobs=-1)	1000 x 100	1000	100	-81284.34	2658640.63	2068300.71	0.131	0.29
XGBoost	1000 x 100	1000	100	-192003.28	2888053.80	2290424.79	-0.025	0.14
XGBoost(tree_method="hist")	1000 x 100	1000	100	-384531.38	2961366.18	2337496.95	-0.078	0.17
LightGBM	1000 x 100	1000	100	-94347.12	2515421.26	1972377.71	0.222	0.10
CatBoost	1000 x 100	1000	100	-136525.60	2449299.13	1923970.44	0.262	1.57
TabNet(device_name="cpu")	1000 x 100	1000	100	-20171222.11	20371856.22	20171222.11	-50.020	0.08
AutoGluon	1000 x 100	1000	100	-9856.34	2445119.50	1900571.99	0.265	51.40
TFDecisionForest	1000 x 100	1000	100	-45796.62	2658954.33	2057758.77	0.131	1.02
Linear Regression	10000 x 10	10000	10	-32095.31	800013.85	637688.05	0.027	0.00
Random Forest(n_jobs=-1)	10000 x 10	10000	10	-26950.99	335395.01	246203.46	0.829	0.41
XGBoost	10000 x 10	10000	10	-10434.03	177153.34	127831.66	0.952	0.22
XGBoost(tree_method="hist")	10000 x 10	10000	10	-6462.18	172586.04	123302.68	0.955	0.06
LightGBM	10000 x 10	10000	10	-5690.22	192358.80	147103.63	0.944	0.07
CatBoost	10000 x 10	10000	10	-3224.82	51821.52	35443.43	0.996	1.30
TabNet(device_name="cpu")	10000 x 10	10000	10	-1854878.89	2022458.63	1854878.89	-5.218	15.84
AutoGluon	10000 x 10	10000	10	-3809.27	41723.22	26834.35	0.997	73.88
TFDecisionForest	10000 x 10	10000	10	-24773.15	387457.29	297673.74	0.772	1.05
Linear Regression	10000 x 20	10000	20	532.32	1184458.81	946445.98	0.034	0.01
Random Forest(n_jobs=-1)	10000 x 20	10000	20	-57215.65	775574.21	604724.58	0.586	0.67
XGBoost	10000 x 20	10000	20	-25636.79	386228.92	296138.61	0.897	0.24
XGBoost(tree_method="hist")	10000 x 20	10000	20	-33727.49	377523.10	291618.21	0.902	0.09

9	Dataset	Rows	Columns	ME	RMSE	MAE	R2	Training Time (s)
LightGBM	10000 x 20	10000	20	-24012.44	435113.87	327493.73	0.870	0.09
CatBoost	10000 x 20	10000	20	-6853.89	125500.62	93763.41	0.989	1.49
TabNet(device_name="cpu")	10000 x 20	10000	20	-3860562.23	4043882.17	3860562.23	-10.266	15.91
AutoGluon	10000 x 20	10000	20	-9513.27	97951.50	70584.49	0.993	80.08
TFDecisionForest	10000 x 20	10000	20	-44184.84	848048.29	670520.75	0.505	1.29
Linear Regression	10000 x 50	10000	50	81611.50	1930394.85	1546614.02	0.016	0.04
Random Forest(n_jobs=-1)	10000 x 50	10000	50	-27046.36	1569546.45	1255942.48	0.350	1.53
XGBoost	10000 x 50	10000	50	-17106.95	1065523.01	847391.28	0.700	0.49
XGBoost(tree_method="hist")	10000 x 50	10000	50	-27113.33	1066490.31	844031.86	0.700	0.15
LightGBM	10000 x 50	10000	50	26080.12	1081653.88	858024.93	0.691	0.10
CatBoost	10000 x 50	10000	50	3493.93	497360.62	391704.06	0.935	1.91
TabNet(device_name="cpu")	10000 x 50	10000	50	-9910818.48	10100115.79	9910818.48	-25.927	17.63
AutoGluon	10000 x 50	10000	50	-11637.86	367731.67	287637.47	0.964	97.75
TFDecisionForest	10000 x 50	10000	50	-124.57	1644710.23	1314203.57	0.286	2.15
Linear Regression	10000 x 100	10000	100	-78780.30	2648251.78	2105237.36	0.011	0.07
Random Forest(n_jobs=-1)	10000 x 100	10000	100	-205368.67	2380001.31	1888299.76	0.201	2.96
XGBoost	10000 x 100	10000	100	-163558.59	1976620.91	1561868.10	0.449	0.75
XGBoost(tree_method="hist")	10000 x 100	10000	100	-185439.75	1984058.29	1589939.93	0.445	0.28
LightGBM	10000 x 100	10000	100	-96209.96	1929041.25	1528217.23	0.475	0.16
CatBoost	10000 x 100	10000	100	-73650.44	1304251.27	1032409.35	0.760	2.32
TabNet(device_name="cpu")	10000 x 100	10000	100	-20176568.38	20351450.21	20176568.38	-57.436	19.75
AutoGluon	10000 x 100	10000	100	-77282.73	1014729.35	801305.98	0.855	146.28
TFDecisionForest	10000 x 100	10000	100	-174799.24	2422780.79	1927027.68	0.172	3.58
Linear Regression	100000 x 10	100000	10	10073.91	811926.86	649901.41	0.023	0.01
Random Forest(n_jobs=-1)	100000 x 10	100000	10	-16142.73	246525.58	177137.40	0.910	4.54
XGBoost	100000 x 10	100000	10	-1252.00	106412.23	79081.16	0.983	1.57
XGBoost(tree_method="hist")	100000 x 10	100000	10	-587.08	106800.43	79524.11	0.983	0.12
LightGBM	100000 x 10	100000	10	639.86	160185.80	123825.13	0.962	0.13
CatBoost	100000 x 10	100000	10	-10.82	24461.18	18930.24	0.999	2.62
TabNet(device_name="cpu")	100000 x 10	100000	10	-975664.09	1035231.91	975664.09	-0.589	167.08
AutoGluon	100000 x 10	100000	10	-482.64	13116.62	9832.86	1.000	176.22
TFDecisionForest	100000 x 10	100000	10	-3835.59	364736.17	289294.95	0.803	6.51
Linear Regression	100000 x 20	100000	20	-1801.69	1179756.21	941828.49	0.021	0.03
Random Forest(n_jobs=-1)	100000 x 20	100000	20	-50002.44	642168.34	496550.82	0.710	9.34
XGBoost	100000 x 20	100000	20	-5310.51	236057.82	182787.31	0.961	1.93
XGBoost(tree_method="hist")	100000 x 20	100000	20	-6624.25	229802.63	177088.33	0.963	0.19
LightGBM	100000 x 20	100000	20	-3262.52	379675.50	286528.49	0.899	0.17
CatBoost	100000 x 20	100000	20	-277.53	52470.04	41251.36	0.998	2.73
TabNet(device_name="cpu")	100000 x 20	100000	20	-3191846.35	3361787.42	3191846.35	-6.948	174.08
AutoGluon	100000 x 20	100000	20	-540.19	25553.59	19821.29	1.000	203.29
TFDecisionForest	100000 x 20	100000	20	-26912.48	832062.48	663224.13	0.513	8.90
Linear Regression	100000 x 50	100000	50	7770.89	1908455.00	1522569.07	0.019	0.14
Random Forest(n_jobs=-1)	100000 x 50	100000	50	-85457.93	1472749.26	1168950.74	0.416	23.24
XGBoost	100000 x 50	100000	50	-10002.48	704706.76	561649.32	0.866	4.43
XGBoost(tree_method="hist")	100000 x 50	100000	50	-17205.42	721079.83	572829.53	0.860	0.43
LightGBM	100000 x 50	100000	50	-5747.75	1046493.31	825268.00	0.705	0.29
CatBoost	100000 x 50	100000	50	-2741.18	211049.85	167729.56	0.988	3.59
TabNet(device_name="cpu")	100000 x 50	100000	50	-9189086.69	9386189.29	9189086.69	-22.723	189.67
AutoGluon	100000 x 50	100000	50	-2204.66	72803.88	57463.32	0.999	307.71

9	Dataset	Rows	Columns	ME	RMSE	MAE	R2	Training Time (s)
TFDecisionForest	100000 x 50	100000	50	-33392.98	1646711.69	1312107.43	0.270	16.91
Linear Regression	100000 x 100	100000	100	6964.07	2696942.66	2156090.86	0.018	0.39
Random Forest(n_jobs=-1)	100000 x 100	100000	100	-106316.33	2350451.23	1877387.76	0.254	48.38
XGBoost	100000 x 100	100000	100	-23408.59	1566455.47	1250795.47	0.669	7.32
XGBoost(tree_method="hist")	100000 x 100	100000	100	-24363.66	1559704.04	1243323.85	0.672	0.79
LightGBM	100000 x 100	100000	100	2597.05	1931007.21	1543598.02	0.497	0.48
CatBoost	100000 x 100	100000	100	-537.93	682103.03	544932.55	0.937	5.51
TabNet(device_name="cpu")	100000 x 100	100000	100	-18954467.77	19149805.05	18954467.77	-48.490	209.07
AutoGluon	100000 x 100	100000	100	-2642.29	182102.69	145052.71	0.996	549.83
TFDecisionForest	100000 x 100	100000	100	-47991.98	2497561.93	1996611.14	0.158	31.54
Linear Regression	1000000 x 10	1000000	10	-1350.90	813910.09	652583.89	0.020	0.18
Random Forest(n_jobs=-1)	1000000 x 10	1000000	10	-14197.01	188379.17	134715.96	0.948	82.86
XGBoost	1000000 x 10	1000000	10	-28.41	93760.76	70441.22	0.987	15.92
XGBoost(tree_method="hist")	1000000 x 10	1000000	10	-94.23	96247.70	72177.45	0.986	0.70
LightGBM	1000000 x 10	1000000	10	-336.01	159078.74	123345.99	0.963	0.72
CatBoost	1000000 x 10	1000000	10	-31.84	20711.15	16322.53	0.999	18.04
TabNet(device_name="cpu")	1000000 x 10	1000000	10	inf	inf	inf	inf	inf
AutoGluon	1000000 x 10	1000000	10	-175.34	10414.66	8076.25	1.000	1067.30
TFDecisionForest	1000000 x 10	1000000	10	-3227.85	371392.80	296969.12	0.796	79.58
Linear Regression	1000000 x 20	1000000	20	-1317.93	1184452.30	946547.30	0.020	0.54
Random Forest(n_jobs=-1)	1000000 x 20	1000000	20	-41637.89	550752.47	421036.11	0.788	170.92
XGBoost	1000000 x 20	1000000	20	-1897.46	194335.80	150062.39	0.974	22.51
XGBoost(tree_method="hist")	1000000 x 20	1000000	20	-740.20	197823.35	152902.57	0.973	1.40
LightGBM	1000000 x 20	1000000	20	-1008.31	371979.31	279778.50	0.903	1.03
CatBoost	1000000 x 20	1000000	20	24.35	42221.67	33482.19	0.999	22.07
TabNet(device_name="cpu")	1000000 x 20	1000000	20	inf	inf	inf	inf	inf
AutoGluon	1000000 x 20	1000000	20	-161.30	18135.58	14332.60	1.000	1491.47
TFDecisionForest	1000000 x 20	1000000	20	-9846.88	851657.85	681207.16	0.493	115.06
Linear Regression	1000000 x 50	1000000	50	5018.15	1901362.36	1519218.67	0.019	2.03
Random Forest(n_jobs=-1)	1000000 x 50	1000000	50	-80564.13	1381029.97	1097119.97	0.483	419.46
XGBoost	1000000 x 50	1000000	50	-2080.84	582675.41	463887.62	0.908	44.79
XGBoost(tree_method="hist")	1000000 x 50	1000000	50	-2075.39	579346.22	461140.97	0.909	3.04
LightGBM	1000000 x 50	1000000	50	1045.63	1042038.72	824493.85	0.705	2.19
CatBoost	1000000 x 50	1000000	50	-157.15	122120.33	97195.37	0.996	30.43
TabNet(device_name="cpu")	1000000 x 50	1000000	50	inf	inf	inf	inf	inf
AutoGluon	1000000 x 50	1000000	50	-211.01	42120.27	33471.35	1.000	2877.39
TFDecisionForest	1000000 x 50	1000000	50	-11078.89	1668441.66	1333444.93	0.245	249.36
Linear Regression	1000000 x 100	1000000	100	3097.86	2695548.87	2149858.04	0.020	6.07
Random Forest(n_jobs=-1)	1000000 x 100	1000000	100	-106422.90	2278260.92	1812874.40	0.300	848.15
XGBoost	1000000 x 100	1000000	100	-3580.07	1402875.28	1118459.53	0.734	78.39
XGBoost(tree_method="hist")	1000000 x 100	1000000	100	-1582.78	1402148.55	1117606.87	0.735	5.38
LightGBM	1000000 x 100	1000000	100	4560.91	1937709.21	1543880.72	0.493	6.57
CatBoost	1000000 x 100	1000000	100	571.15	397152.90	316623.01	0.979	47.95
TabNet(device_name="cpu")	1000000 x 100	1000000	100	inf	inf	inf	inf	inf
AutoGluon	1000000 x 100	1000000	100	-125.90	87712.97	69829.64	0.999	5779.93
TFDecisionForest	1000000 x 100	1000000	100	-16800.77	2523456.07	2012032.48	0.141	475.67