DIAMONDS | DATAMAD 0820

Models tested sklearn

LinearRegression(),

Ridge(),

Lasso(),

MultiTaskLasso(),

ElasticNet(),

MultiTaskElasticNet(),

LassoLars(),

OrthogonalMatchingPursuit(),

BayesianRidge(),

TweedieRegressor(),

SGDRegressor(),

PassiveAggressiveRegressor(),

SVR(),

LinearSVR(),

DecisionTreeRegressor(),

MLPRegressor(),

RandomForestRegressor(),

GradientBoostingRegressor(),

AdaBoostRegressor(),

ExtraTreesRegressor()

Models tested h2o

StackedEnsemble
GBM_grid__1
GBM_1
GBM_3

Sklearn model chosed metrics singe train (DecisionTreeRegressor)

expvariance regression 0.982
maxerr regression 6714.38
meanabserr regression 274.829
meansqr regression 296659.652
root meansqr regression 544.665
meanabserr regression 103.76
r2-score regression 0.982

h2O model chosed metrics first train (StackedEnsemble_AllModels)

mean_residual_deviance 277757

rmse 527.027

mse 277757

mae 266.871

rmsle0.0932635