type = original methot = ElasticNet() metric: r2

{'alpha': 0.05, 'fit\_intercept': 'False'}

0.801992027720965

type = original methot = ElasticNet() metric: neg\_mean\_absolute\_error

{'alpha': 0.4, 'fit\_intercept': 'False'}

-19640.59265159963

type = original methot = ElasticNet() metric: neg\_mean\_squared\_error

{'alpha': 0.05, 'fit\_intercept': 'False'}

-740463113.2191767

type = original methot = Pipeline(steps=[('polynomialfeatures', PolynomialFeatures()),

('linearregression', LinearRegression())]) metric: r2

{'linearregression\_\_fit\_intercept': True, 'linearregression\_\_normalize': False, 'polynomialfeatures\_\_degree': 2}

0.8049086859071225

type = original methot = Pipeline(steps=[('polynomialfeatures', PolynomialFeatures()),

('linearregression', LinearRegression())]) metric: neg\_mean\_absolute\_error

{'linearregression\_\_fit\_intercept': True, 'linearregression\_\_normalize': False, 'polynomialfeatures\_\_degree': 2}

-19191.009752136746

type = original methot = Pipeline(steps=[('polynomialfeatures', PolynomialFeatures()),

('linearregression', LinearRegression())]) metric: neg\_mean\_squared\_error

{'linearregression\_\_fit\_intercept': True, 'linearregression\_\_normalize': False, 'polynomialfeatures\_\_degree': 2}

-731090409.0334231

type = original methot = KernelRidge() metric: r2

{'alpha': 4, 'degree': 2, 'kernel': 'polynomial'}

0.8108993010043338

type = original methot = KernelRidge() metric: neg\_mean\_absolute\_error

{'alpha': 2, 'degree': 2, 'kernel': 'polynomial'}

-18914.2320723009

type = original methot = KernelRidge() metric: neg\_mean\_squared\_error

{'alpha': 4, 'degree': 2, 'kernel': 'polynomial'}

-707685603.5701972

type = standardization methot = ElasticNet() metric: r2

{'alpha': 0.05, 'fit\_intercept': 'False'}

0.8017061261913249

type = standardization methot = ElasticNet() metric: neg\_mean\_absolute\_error

{'alpha': 0.25, 'fit\_intercept': 'False'}

-19737.393695039576

type = standardization methot = ElasticNet() metric: neg\_mean\_squared\_error

{'alpha': 0.05, 'fit\_intercept': 'False'}

-741848746.2148327

type = standardization methot = Pipeline(steps=[('polynomialfeatures', PolynomialFeatures()),

('linearregression', LinearRegression())]) metric: r2

{'linearregression\_\_fit\_intercept': True, 'linearregression\_\_normalize': False, 'polynomialfeatures\_\_degree': 2}

0.8049086859176194

type = standardization methot = Pipeline(steps=[('polynomialfeatures', PolynomialFeatures()),

('linearregression', LinearRegression())]) metric: neg\_mean\_absolute\_error

{'linearregression\_\_fit\_intercept': True, 'linearregression\_\_normalize': False, 'polynomialfeatures\_\_degree': 2}

-19191.009753006172

type = standardization methot = Pipeline(steps=[('polynomialfeatures', PolynomialFeatures()),

('linearregression', LinearRegression())]) metric: neg\_mean\_squared\_error

{'linearregression\_\_fit\_intercept': True, 'linearregression\_\_normalize': False, 'polynomialfeatures\_\_degree': 2}

-731090408.9902557

type = standardization methot = KernelRidge() metric: r2

{'alpha': 5, 'degree': 2, 'kernel': 'polynomial'}

0.8178679368414786

type = standardization methot = KernelRidge() metric: neg\_mean\_absolute\_error

{'alpha': 3, 'degree': 3, 'kernel': 'polynomial'}

-18671.54468519874

type = standardization methot = KernelRidge() metric: neg\_mean\_squared\_error

{'alpha': 5, 'degree': 2, 'kernel': 'polynomial'}

-682162007.7503682

type = normalization methot = ElasticNet() metric: r2

{'alpha': 0.05, 'fit\_intercept': 'False'}

0.0015042929755870738

type = normalization methot = ElasticNet() metric: neg\_mean\_absolute\_error

{'alpha': 0.05, 'fit\_intercept': 'False'}

-46842.534386660634

type = normalization methot = ElasticNet() metric: neg\_mean\_squared\_error

{'alpha': 0.05, 'fit\_intercept': 'False'}

-3753954600.3865104

type = normalization methot = Pipeline(steps=[('polynomialfeatures', PolynomialFeatures()),

('linearregression', LinearRegression())]) metric: r2

{'linearregression\_\_fit\_intercept': True, 'linearregression\_\_normalize': False, 'polynomialfeatures\_\_degree': 2}

0.7599197116332904

type = normalization methot = Pipeline(steps=[('polynomialfeatures', PolynomialFeatures()),

('linearregression', LinearRegression())]) metric: neg\_mean\_absolute\_error

{'linearregression\_\_fit\_intercept': True, 'linearregression\_\_normalize': False, 'polynomialfeatures\_\_degree': 2}

-21322.133825944173

type = normalization methot = Pipeline(steps=[('polynomialfeatures', PolynomialFeatures()),

('linearregression', LinearRegression())]) metric: neg\_mean\_squared\_error

{'linearregression\_\_fit\_intercept': True, 'linearregression\_\_normalize': False, 'polynomialfeatures\_\_degree': 2}

-902995249.6067324

type = normalization methot = KernelRidge() metric: r2

{'alpha': 0.001, 'kernel': 'laplacian'}

0.6909894209961208

type = normalization methot = KernelRidge() metric: neg\_mean\_absolute\_error

{'alpha': 0.01, 'kernel': 'laplacian'}

-24155.021384514243

type = normalization methot = KernelRidge() metric: neg\_mean\_squared\_error

{'alpha': 0.001, 'kernel': 'laplacian'}

-1157365605.4649327