

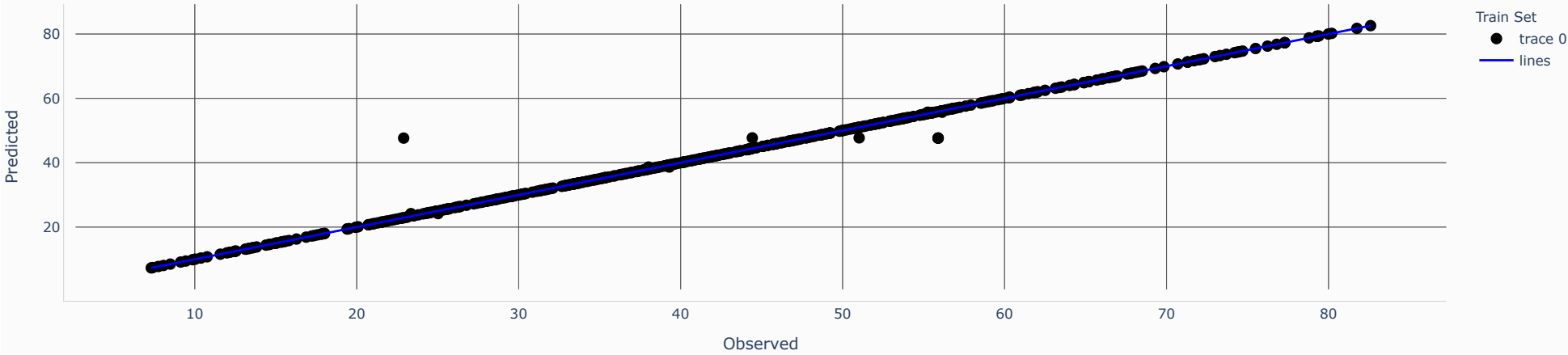
Regression Training for Dataset

The Decision Tree Regression results for ConcretecompressivestrengthMPamegapascals

train results:

Scores- MSE: 1.6331182665097088 and R^2: 0.9942244607856247

Decision Tree Regression train set



EXPORT

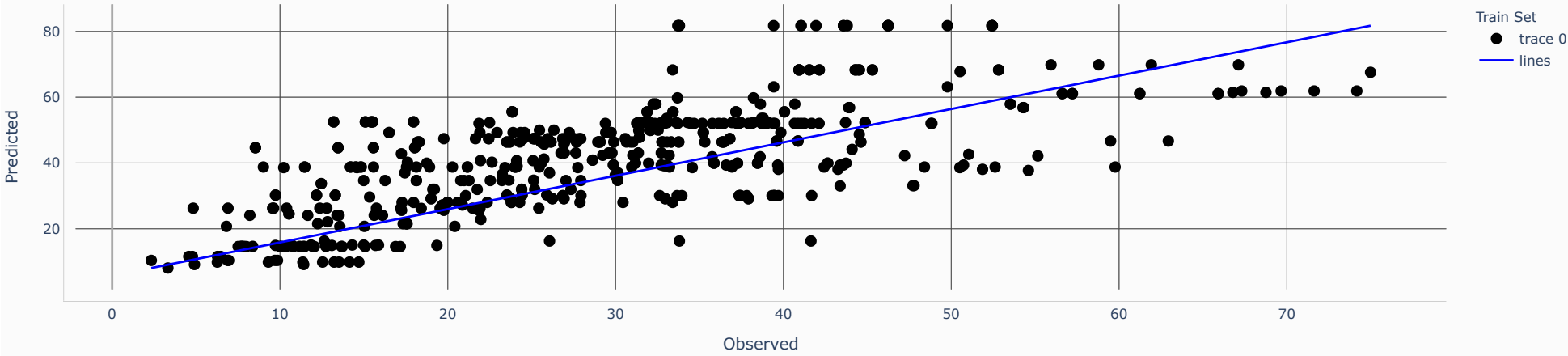
Observed	Predicted
79.9861	79.9861
61.8874	61.8874
40.2695	40.2695
41.0528	41.0528
44.2961	44.2961
47.0298	47.0298
43.6983	43.6983
36.4478	36.4478
45.8543	45.8543
39.2898	39.2898

« < 1 / 52 > »

test results:

Scores- MSE: 306.9930386186991 and R^2: -0.6097498295269856

Decision Tree Regression test set



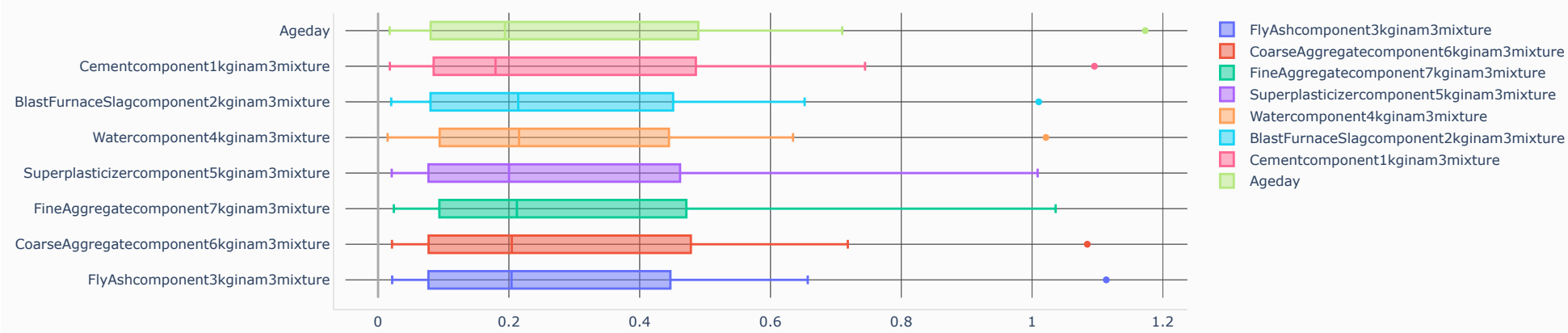
EXPORT

Observed	Predicted
21.9667	22.8354
9.849699999999999	10.383499999999998

15.07	14.589300000000001
23.2452	36.5629
43.7335	39.9413
13.395499999999998	24.0972
24.1317	39.0046
44.5205	48.7184
62.9354	46.6844
59.4949	46.6844

« < 1 / 52 > »

Permutation Importances forDecision Tree Regression

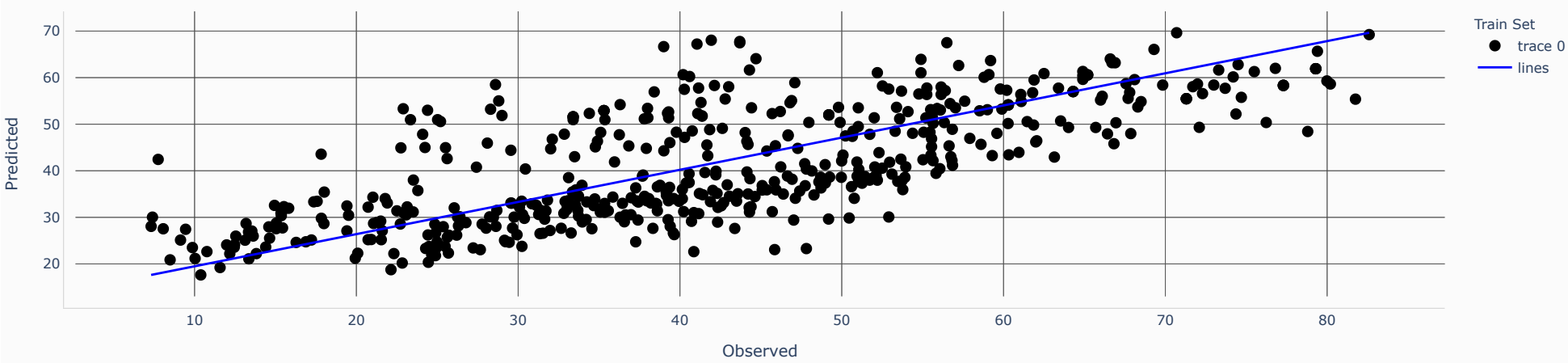


The Support Vector Regression results for ConcretecompressivestrengthMPamegapascals

train results:

Scores- MSE: 135.30665675659057 and R^2: 0.5214866442380403

Support Vector Regression train set



EXPORT

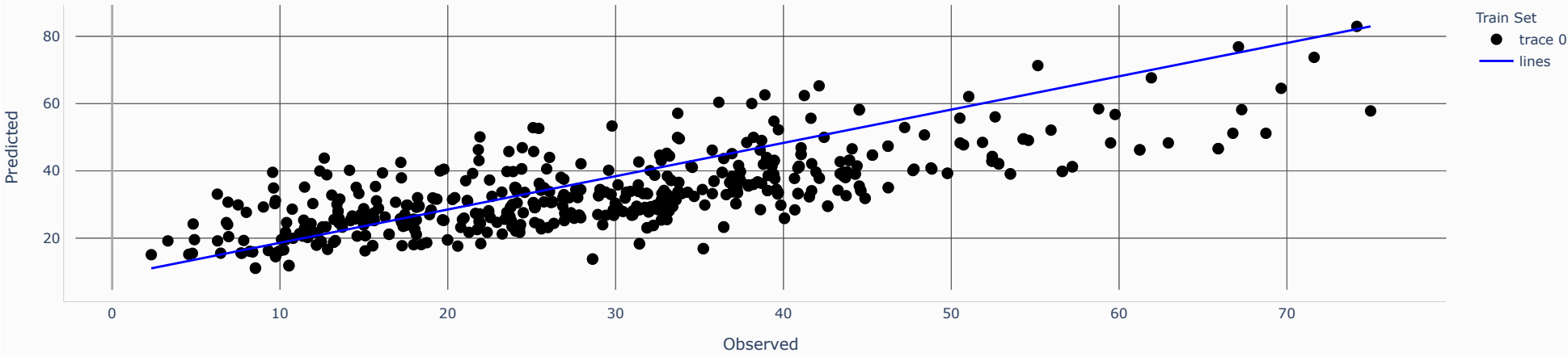
Observed	Predicted
79.9861	59.2890620788049
61.8874	59.498751575618925
40.2695	57.4920325074478
41.0528	67.21165165091928
44.2961	61.642851873314385
47.0298	29.413590090387043
43.6983	67.48664351924447
36.4478	33.00757350503826
45.8543	23.070259702016912
39.2898	33.55755724168872

« < 1 / 52 > »

test results:

Scores- MSE: 105.50317813939259 and R^2: 0.4467831460003088

Support Vector Regression test set

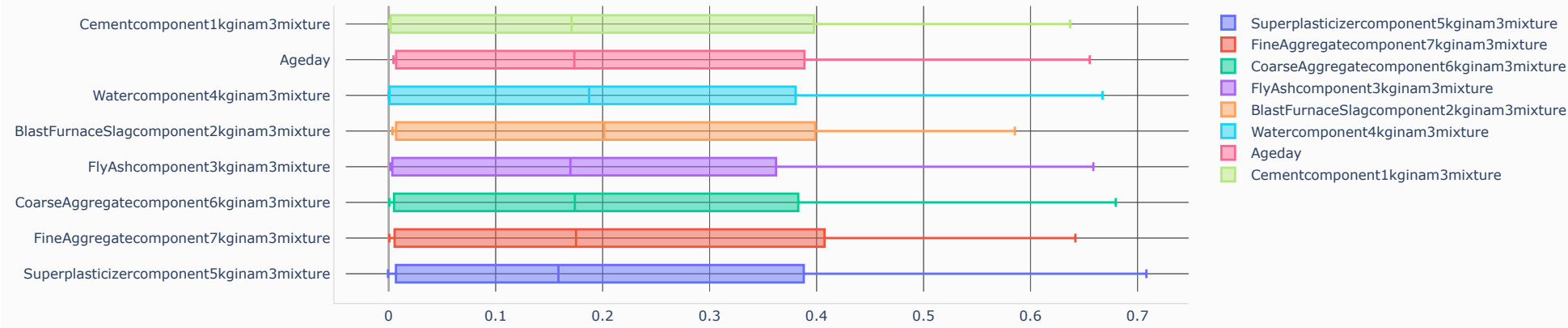


EXPORT

Observed	Predicted
21.9667	18.368571224442526
9.849699999999999	15.810776713003815
15.07	16.220023834832784
23.2452	21.23330107725507
43.7335	32.63072355075091
13.395499999999998	30.072929039311447
24.1317	30.48217616114156
44.5205	35.49545340356335
62.9354	48.31829297193859
59.4949	48.31829297193859

« < 1 / 52 > »

Permutation Importances forSupport vector Regression

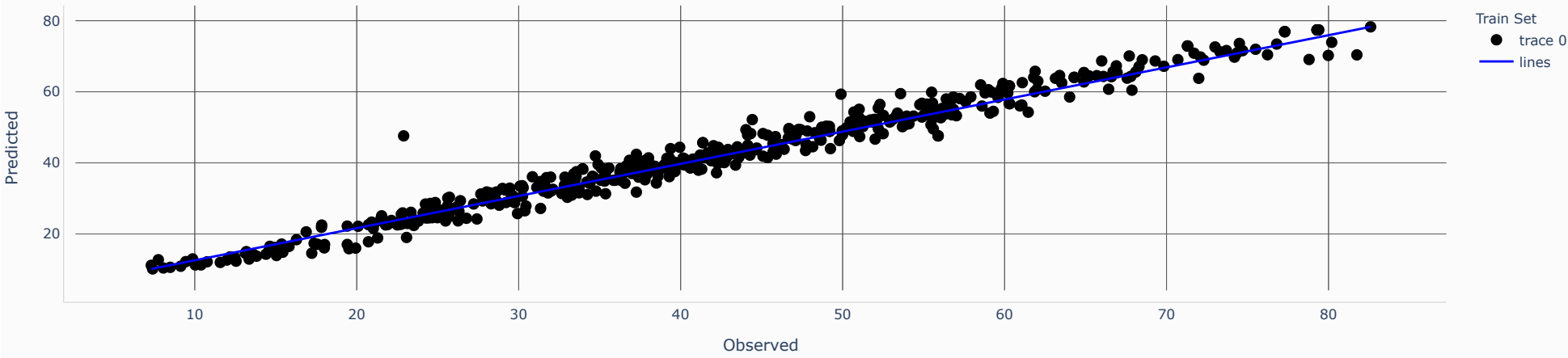


The Random Forest Regression results for ConcretecompressivestrengthMPamegapascals

train results:

Scores- MSE: 8.078064506303159 and R^2: 0.9714318434315729

Random Forest Regression train set



EXPORT

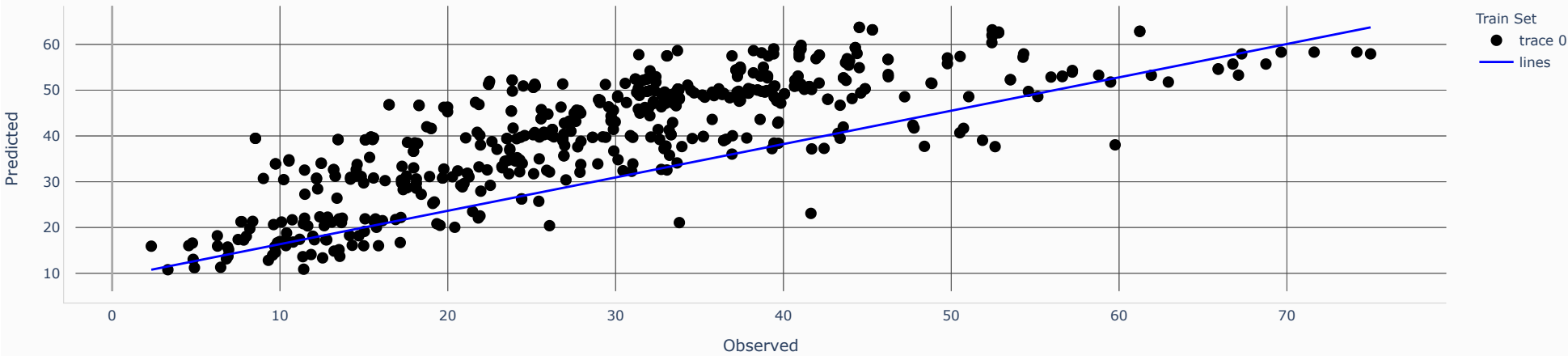
Observed	Predicted
79.9861	70.23009878167046
61.8874	65.76324410772614
40.2695	40.07522519174961
41.0528	40.63793599730516
44.2961	43.31802599727844
47.0298	48.723691137398944
43.6983	42.40363077365562
36.4478	37.06075585393183
45.8543	47.38980493990817
39.2898	39.16682668550149

« < 1 / 52 > »

test results:

Scores- MSE: 200.5673584889681 and R^2: -0.05169574068846172

Random Forest Regression test set

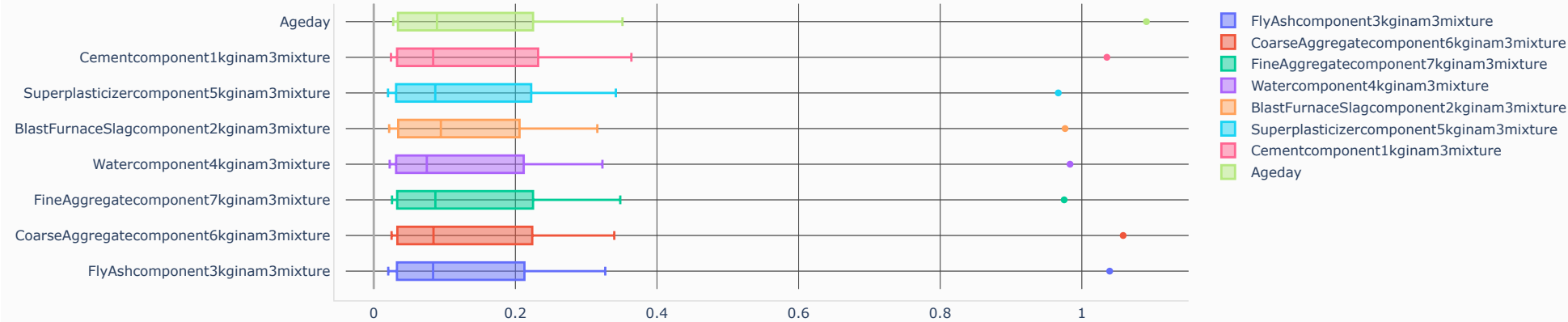


EXPORT

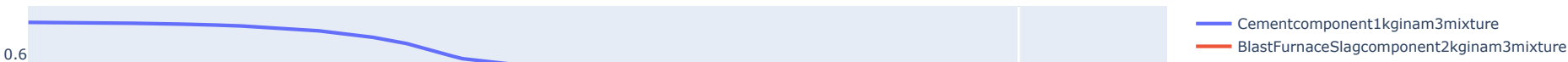
Observed	Predicted
21.9667	27.939718505767214
9.849699999999999	16.683149974853325
15.07	21.898438370751727
23.2452	33.050665029018106
43.7335	52.13887864946945
13.395499999999998	26.405191107337107
24.1317	35.24418335990244
44.5205	54.91532916720916
62.9354	51.779577679380346
59.4949	51.779577679380346

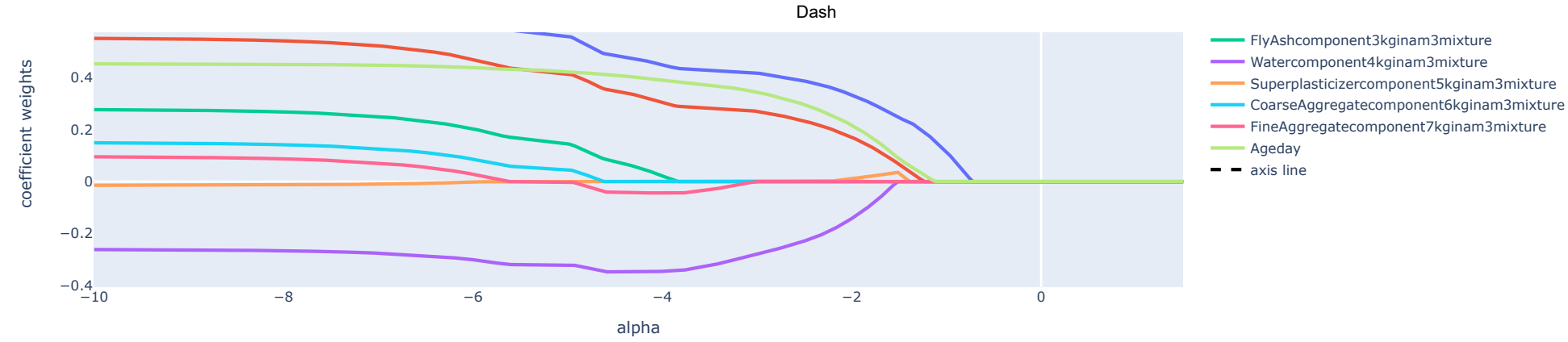
« < 1 / 52 > »

Permutation Importances forRandom Forest Regression



LASSO : Coefficient Weight as Alpha Grows

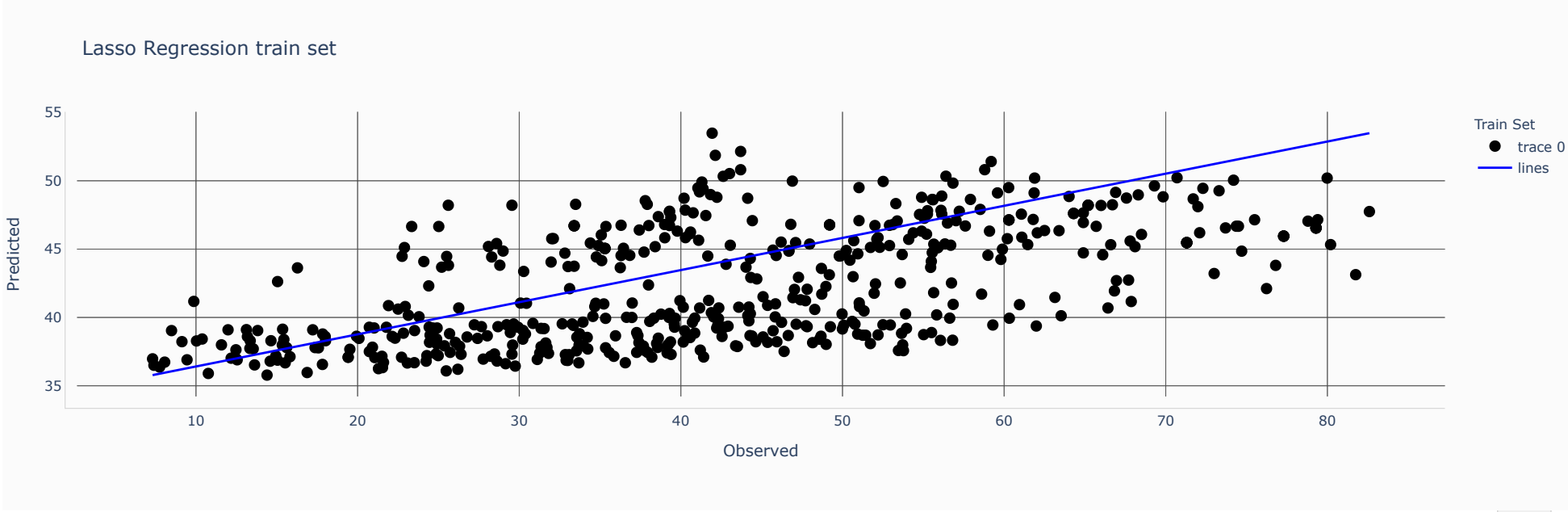




The Lasso Regression results for ConcretecompressivestrengthMPamegapascals

train results:

Scores- MSE: 217.26967168950176 and R^2: 0.2316236155884569



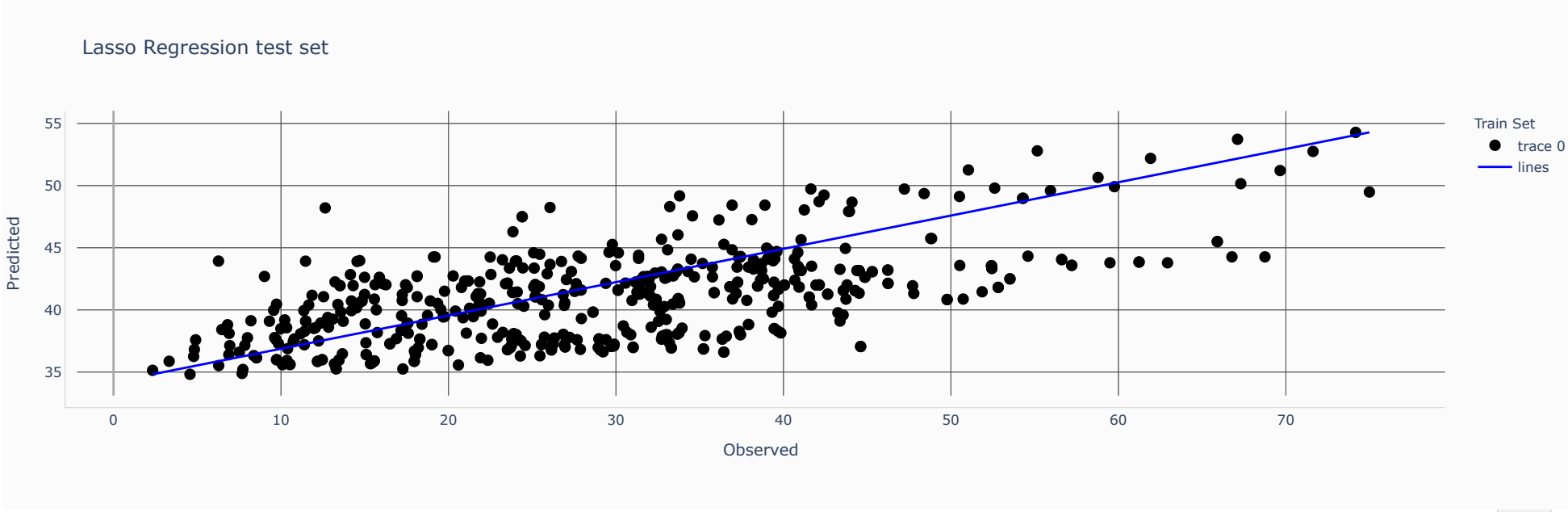
EXPORT

Observed	Predicted
79.9861	50.19743751089438
61.8874	50.19743751089438
40.2695	47.852482221266236
41.0528	49.47275648256821
44.2961	44.31696504047048
47.0298	42.05192657722384
43.6983	50.80958191320276
36.4478	45.06187216521577
45.8543	40.994484427742556
39.2898	47.73552302648488

« < 1 / 52 > »

test results:

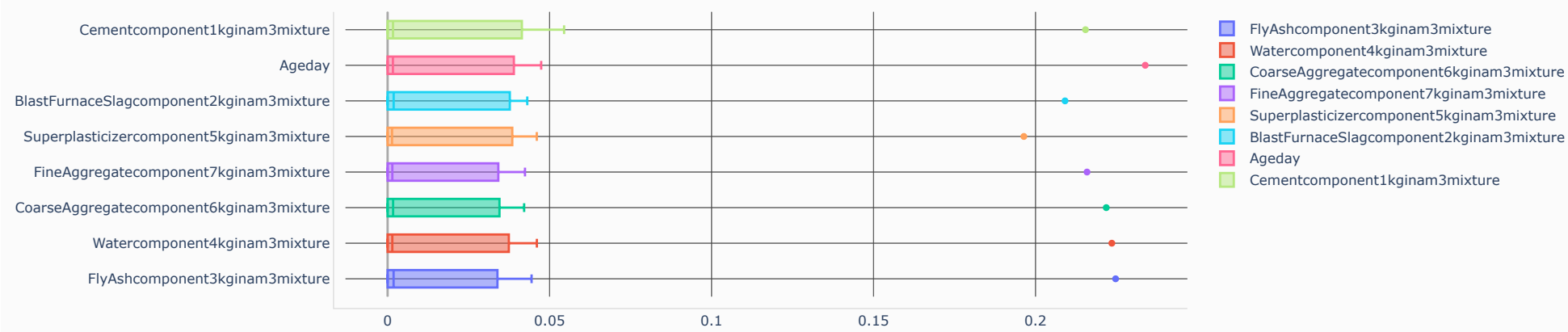
Scores- MSE: 276.6597878682295 and R^2: -0.45069428401927225



EXPORT

Observed	Predicted
21.9667	37.71408979304228
9.849699999999999	37.28770182954176
15.07	37.35592390370184
23.2452	38.19164431216286
43.7335	40.86656991984371
13.395499999999998	40.440181956343196
24.1317	40.50840403050328
44.5205	41.34412443896429
62.9354	43.78941472970556
59.4949	43.78941472970556

Permutation Importances forLasso Regression

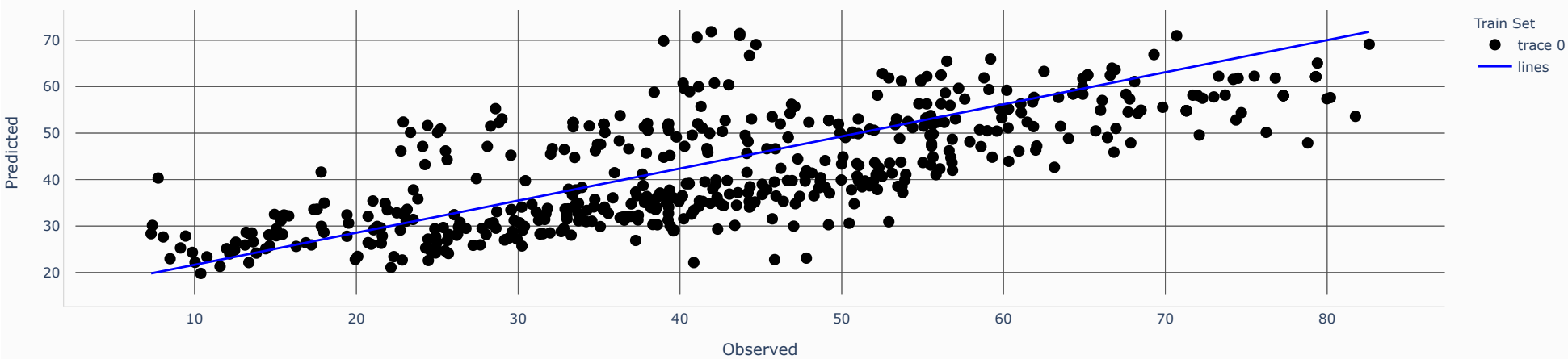


The Random Forest Regression results for ConcretecompressivestrengthMPamegapascals

train results:

Scores- MSE: 132.6890070012559 and R^2: 0.5307439889885501

Random Forest Regression train set



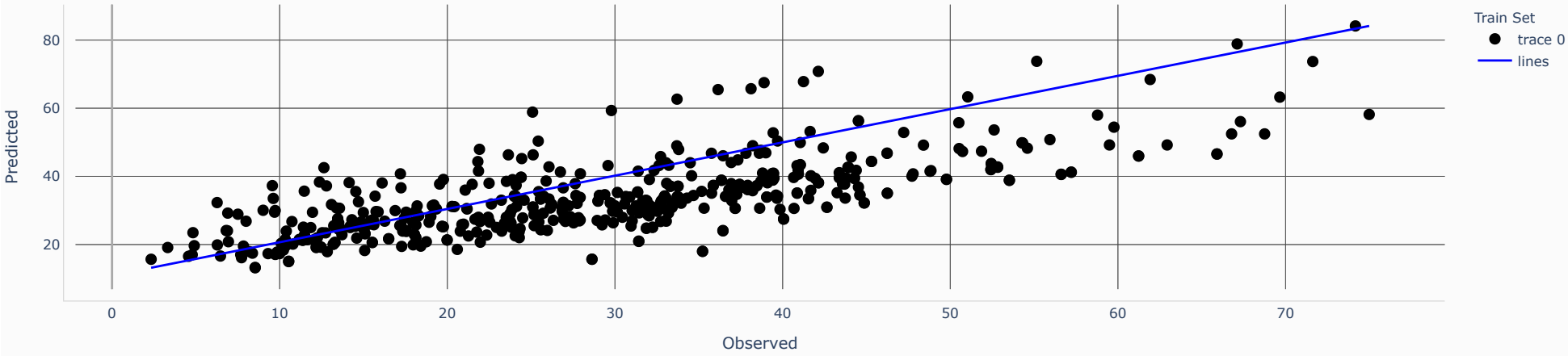
EXPORT

Observed	Predicted
79.9861	57.40550340601354
61.8874	57.69581282059802
40.2695	59.60302720208763
41.0528	70.62594244761186
44.2961	66.71366438579545
47.0298	29.97100227401588
43.6983	71.02346438616603
36.4478	31.92112293625369
45.8543	22.777099692726367
39.2898	32.716166813361994

test results:

Scores- MSE: 105.09166306028933 and R^2: 0.44894096798680994

Random Forest Regression test set

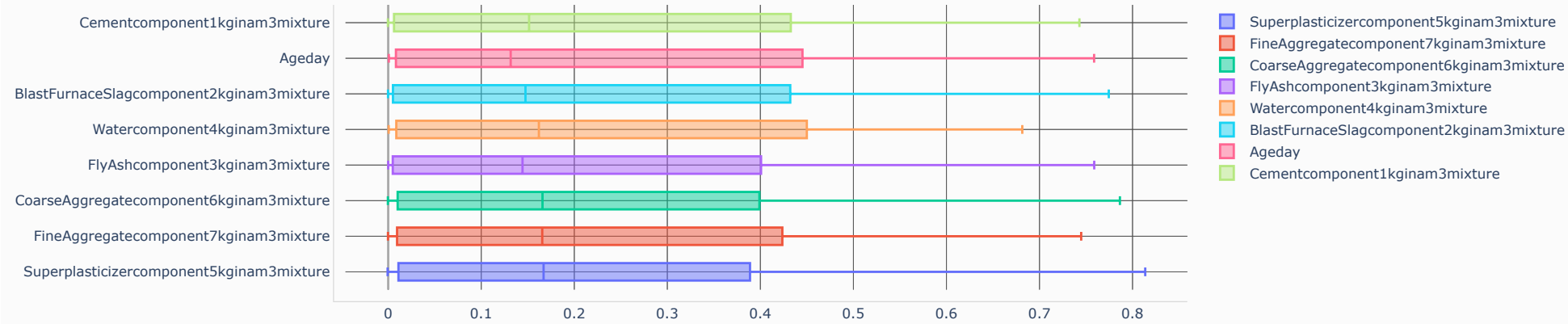


EXPORT

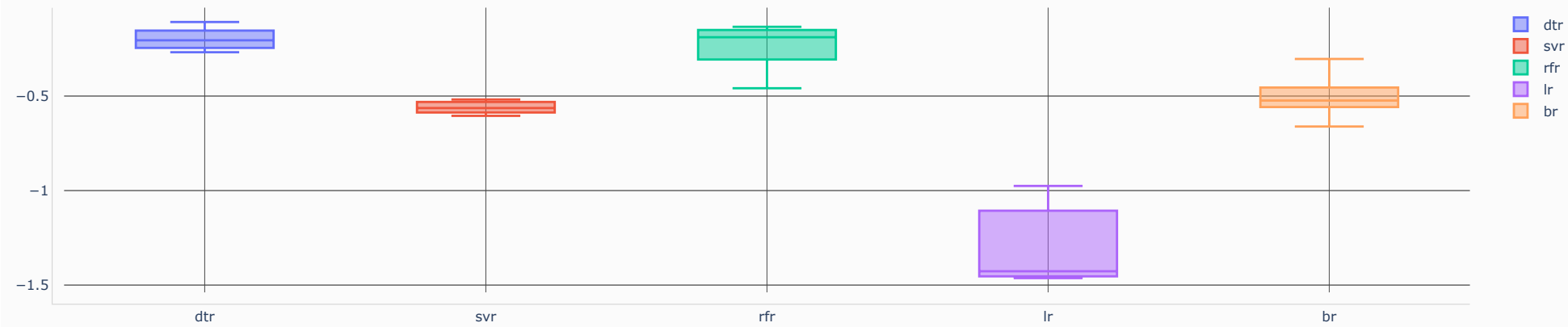
Observed	Predicted
21.9667	20.684375262724117
9.849699999999999	17.783608092849313
15.07	18.247730840029284
23.2452	23.933234492983896
43.7335	33.62070904768496
13.395499999999998	30.71994187781016
24.1317	31.18406462499013
44.5205	36.869568277944744
62.9354	49.21920234123767
59.4949	49.21920234123767

« < 1 / 52 > »

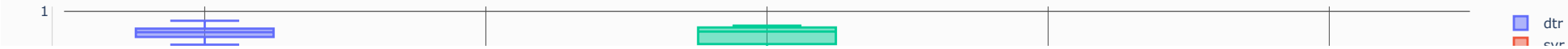
Permutation Importances forBayesian Ridge Regression

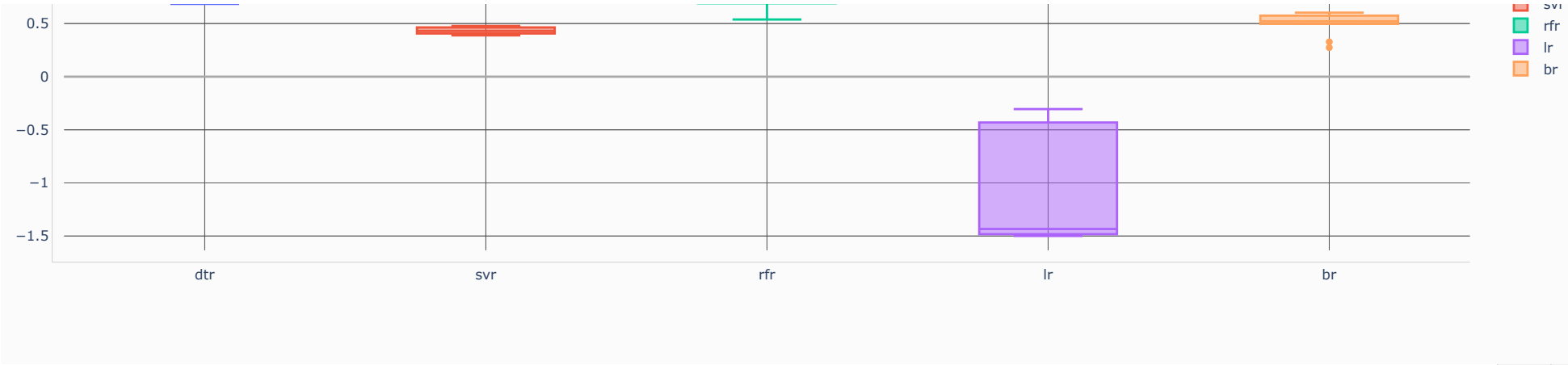


RMSE : Algorithm comparison



R^2 : Algorithm comparison





Explained Variance : Algorithm comparison

