

Model Metrics - RandomForestRegressor()

Target Variable = 'Next Year % Chronically Absent'

final model features	parameters	hyperparameters	performance metrics
<ul style="list-style-type: none">• % Attendance• % Chronically Absent• '% Attendance - diff from 5 yr avg',• '% Attendance - diff from 2 yr avg',• '% Chronically Absent - diff from 5 yr avg',• '% Chronically Absent - diff from 2 yr avg'• Dummy Variables<ul style="list-style-type: none">○ Grade○ Demographic Variable○ District Number	{'bootstrap': True, 'ccp_alpha': 0.0, 'criterion': 'mse', 'max_depth': None, 'max_features': 'auto', 'max_leaf_nodes': None, 'max_samples': None, 'min_impurity_decrease': 0.0, 'min_impurity_split': None, 'min_samples_leaf': 1, 'min_samples_split': 2, 'min_weight_fraction_leaf': 0.0, 'n_estimators': 100, 'n_jobs': None, 'oob_score': False, 'random_state': None, 'verbose': 0, 'warm_start': False}	{'n_estimators': 144, 'min_samples_split': 2, 'min_samples_leaf': 1, 'max_features': 'sqrt', 'max_depth': 100, 'bootstrap': False}	<u>R2 (test set)</u> 0.824 <u>MAE (test set)</u> 5.14 <u>MSE (test set)</u> 54.97