

Machine Learning Algorithm

Support Vector Machine

class sklearn.svm.SVR(, kernel='rbf', degree=3, gamma='scale', coef0=0.0, tol=0.001, C=1.0, epsilon=0.1, shrinking=True, cache_size=200, verbose=False, max_iter=-1)*

Kernel	C	Coef0	R_Score
Linear	1.0	0.0	0.89
Rbf(default)	10000	0.0	0.37
poly	100	100	0.90
Sigmoid	10000	1000,epsilon=1	-0.57

Decision Tree

class sklearn.tree.DecisionTreeRegressor(, criterion='squared_error', splitter='best', max_depth=None, min_samples_split=2, min_samples_leaf=1, min_weight_fraction_leaf=0.0, max_features=None, random_state=None, max_leaf_nodes=None, min_impurity_decrease=0.0, ccp_alpha=0.0, monotonic_cst=None)*

Criterion	Splitter	max_depth	Random State	R_Score
Squared error(default)	Best	None	None	0.92
friedman_mse	Best	None	None	0.91
absolute_error	Best	None	None	0.95
poisson	Best	None	None	0.91
Squared error	random	None	None	0.65
friedman_mse	random	None	None	0.65
absolute_error	Random	None	None	0.72
poisson	random	None	None	0.65
Squared error	Best	1	1	0.27
friedman_mse	Best	1	1	0.27
absolute_error	Best	1	1	0.26
poisson	Best	1	1	0.06

Squared error	random	1	1	-0.03
friedman_mse	Random	1	1	-0.03
absolute_error	Random	1	1	-0.02
poisson	random	1	1	-0.03
friedman_mse	Best	2	1	0.78
absolute_error	Best	2	1	0.69
Squared error	Best	2	None	0.78
poisson	random	2	None	0.70