

## **DECISION TREE REGRESSION**

The below table shows what combination provides best results for Decision Tree Regression

CRITERION	SPLITTER	R2_SCORE
Squared_error	Best	0.890551705936772
Friedman_mse	Best	0.921706946447958
Absolute_error	Best	0.931099446838739
Poisson	Best	0.91951073176435
Squared error	Random	0.791695792504711
Friedman_mse	Random	0.892747553054635
Absolute_error	Random	0.929132429200178
Poisson	Random	0.677831317519533

The best model with a combination parameter was

`DecisionTreeRegression(criterion = 'absolute_error' , splitter = 'random')` with an r2\_score of 0.931099