DECISION TREE

Decision Tree accuracy value (R2) for Hyper parameter criterion=' absolute_error', splitter='best' is

0.9537

```
from sklearn.tree import DecisionTreeRegressor
regressor=DecisionTreeRegressor(criterion='absolute_error',splitter='best')
regressor=regressor.fit(x_train,y_train)
```

Sl no	Criterion	Splitter	Max features	R Value
1	squared_error	Best	None	0.9004
2	squared_error	Random	None	0.8994
3	squared_error	Best	Sqrt	-0.0127
4	squared_error	Random	Sqrt	0.8434
5	squared_error	Best	Log2	-0.9479
6	squared_error	Random	Log2	-0.4547
7	friedman_mse	Best	None	0.9218
8	friedman_mse	Random	None	0.9396
9	friedman_mse	Best	Sqrt	0.8368
10	friedman_mse	Random	Sqrt	0.3850
11	friedman_mse	Best	Log2	0.7952
12	friedman_mse	Random	Log2	-0.7694
13	absolute_error	Best	None	0.9537
14	absolute_error	Random	None	0.9250
15	absolute_error	Best	Sqrt	0.5626
16	absolute_error	Random	Sqrt	0.8786
17	absolute_error	Best	Log2	0.9281
18	absolute_error	Random	Log2	0.5048
19	Poisson	Best	None	0.9230
20	Poisson	Random	None	0.9221
21	Poisson	Best	Sqrt	0.3345
22	Poisson	Random	Sqrt	-0.2558
23	Poisson	Best	Log2	0.3303
24	poisson	Random	Log2	-0.7017