Decision Tree – Model Creation

Parameters : --criterion='*squared_error*'—

criterion*{"squared_error", "friedman_mse", "absolute_error", "poisson"}, default="squared_error"*

Hyper Parameter: -- **criterion='*squared_error*', splitter='best'--**

splitter*{"best", "random"}, default="best"*
For more : https://scikit-learn.org/stable/modules/generated/sklearn.tree.DecisionTreeRegressor.html

To create model :

```
from sklearn.tree import DecisionTreeRegressor

regressor=DecisionTreeRegressor()

regressor=regressor.fit(x_train,y_train)
```

To check the tree plot :

```
import matplotlib.pyplot as plt

from sklearn import tree

tree.plot_tree(regressor)

plt.show()
```

Scores

SL.NO	criterion	splitter	R Scores
1	*squared_error (mse)*	*best*	0.9056968027158233
2	*squared_error (mse*	*random*	0.8827803205765573
3	*friedman_mse*	*best*	0.9187732287399306
4	*friedman_mse*	*random*	0.827597299991591
5	*absolute_error (mae)*	*best*	0.9464718482859379
6	*absolute_error (mae)*	*random*	0.8866202025147979