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import numpy as np
import pandas as pd
from sklearn.datasets import make classification
from sklearn.ensemble import BaggingClassifier,RandomForestClassifier
from sklearn.tree import plot tree
import matplotlib.pyplot as plt
X,y = make classification(n features=5, n redundant=0,
n informative=5,n clusters per class=1)
df = pd.DataFrame(X,columns=['col1','col2','col3','col4','col5'])
df['target'] = y
print(df.shape)
df.head()
(100, 6)
       col1
                col2
                          col3 col4
                                              col5 target
                                          0.719450
0 0.909543 -0.106691 1.670528 -0.757393
                                                         0
1 0.110632 -0.453240 2.187968 -0.701946
                                          0.129855
                                                         0
2 -1.937132 -0.919501 0.892775 1.143991 -0.239039
                                                         1
3 3.719366 3.021129 -1.907133 -0.006832 2.674378
                                                         0
4 2.122679 3.480089 0.358837 1.516227 0.935520
                                                         0
bag = BaggingClassifier(max features=2)
bag.fit(df.iloc[:,:5],df.iloc[:,-1])
BaggingClassifier(base estimator=None, bootstrap=True,
bootstrap features=False,
                 max features=2, max samples=1.0, n estimators=10,
n jobs=None,
                 oob score=False, random state=None, verbose=0,
                 warm start=False)
plt.figure(figsize=(12,12))
plot tree(bag.estimators_[0])
plt.show()
```



