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In [1]: import numpy as np
import pandas as pd

dataset=pd.read_csv("data.csv")
X=dataset.iloc[:, :-1]
y=dataset.iloc[:, 5].values

from sklearn.preprocessing import LabelEncoder
labelencoder_X=LabelEncoder()

X=X.apply(LabelEncoder().fit_transform)
print(X)

from sklearn.tree import DecisionTreeClassifier
regressor=DecisionTreeClassifier()
regressor.fit(X.iloc[:, 1:5], y)

X_in=np.array([1,1,0,0])
y_pred=regressor.predict([X_in])

print("Prediction", y_pred)
from sklearn.externals.six import StringIO
from IPython.display import Image
from sklearn.tree import export_graphviz
import pydotplus

dot_data=StringIO()
export_graphviz(regressor, out_file=dot_data, filled=True, rounded=True, special_characters=True)
graph=pydotplus.graph_from_dot_data(dot_data.getvalue())
graph.write_png('decisiontree.png')

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	id	age	income	gender	marrital_status
0	0	1	0	1	1
1	1	1	0	1	0
2	2	0	0	1	1
3	3	2	2	1	1
4	4	2	1	0	1
5	5	2	1	0	0
6	6	0	1	0	0
7	7	1	2	1	1
8	8	1	1	0	0
9	9	2	2	0	1
10	10	1	2	0	0
11	11	0	2	1	0
12	12	0	0	0	1
13	13	2	2	1	0

('Prediction', array(['Yes'], dtype=object))

Out[1]: True

In [ ]: