#import packages

import numpy as np

import matplotlib.pyplot as plt

import pandas as pd

#reading Dataset

dataset=pd.read\_csv("F:\Shopdata.csv")

X=dataset.iloc[:,:-1]

y=dataset.iloc[:,5].values

#Perform Label encoding

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)

#Predict value for the given expression

X\_in=np.array([0,1,0,1])

y\_pred=regressor.predict([X\_in])

print ("Prediction:", y\_pred)

from six import StringIO

from IPython.display import Image

from sklearn.tree import export\_graphviz

import pydotplus

# Create DOT data

dot\_data = StringIO()

export\_graphviz(regressor, out\_file=dot\_data, filled=True, rounded=True, special\_characters=True)

# Draw graph

!pip install graphviz

graph = pydotplus.graph\_from\_dot\_data(dot\_data.getvalue())

graph.write\_png('Decision\_Tree.png')

# Show graph

Image(graph.create\_png())