import pandas as pd

golf\_data=pd.read\_csv(‘/home/su/desktop/….) //copy the link of csv file

golf\_data.head(10)

y=golf\_data[“Play Tennis”]

x=gold\_data.drop([“Play Tennis”],axis=1)

x=x.drop([“Day”],axis=1),x //might delete x and try once

x\_dummies=pd.get\_dummies(x)

x\_dummies=pd.get\_dummies(x) //might delete one line and try once

x\_dummies

x\_dummies.shape

from sklearn.model\_selection import train\_test\_split x\_train,x\_test,y\_train,y\_test=train\_test\_split(x\_dummies,y,test\_size=0.3)

from sklearn.tree import DecisionTreeClassfier

clf=DecisionTreeClassifier(criterion=”entropy”)

clf.fit(x\_train,y\_train)/(x\_dummies,y) //use the x\_dummies,y instead of x\_train,y\_train

y\_pred=clf.predict(x\_test)

y\_pred

y\_test

from sklearn.metrics import confusion\_matrix

cm=confusion\_matrix(y\_test,y\_pred)

print(‘confusion matrix \n’,cm)

print(“accuracy is”,clf.score(x\_test,y\_test)\*100) //might use ‘’ instead of “”

import sklearn

sklearn.\_\_version\_\_ //double underscore

cols=list(x\_dummies.columns.values)

cols

from sklearn import tree

import matplotlib.pyplot as plt

plt.figure(figsize=(15,8))

tree.plot\_tree(clf.fit(x\_dummies,y),feature\_names=cols,filled=True,precision=3,proportion=True, rounded=True)

plt.show()

from sklearn.externals.six import StringIO

from IPython.display import Image

from sklearn.tree import export\_graphviz

import pydotplus

dot\_data=StringIO()

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

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

graph.write\_png(‘golf.png’)

Image(graph.create\_png())