**import** pandas **as** pd

data**=**pd.read\_csv('diabetes.csv')

data.head()

y**=**data['Outcome']

x**=**data.drop(['Outcome'],axis**=**1)

x

**from** sklearn.model\_selection **import** train\_test\_split

**from** sklearn **import** metrics

x\_train,x\_test,y\_train,y\_test**=**train\_test\_split(x,y,test\_size**=**0.3)

**from** sklearn.tree **import** DecisionTreeClassifier

clf**=**DecisionTreeClassifier()

clf.fit(x,y)

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

print('accuracy',metrics.accuracy\_score(y\_pred,y\_test))

accuracy 1.0

**from** sklearn.externals.six **import** StringIO

**from** sklearn.tree **import** export\_graphviz

**import** pydotplus

**from** IPython.display **import** Image

dot\_data**=**StringIO()

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

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

Image(graph.create\_png())