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import pandas as pd
from sklearn.tree import DecisionTreeClassifier
from \ sklearn.model\_selection \ import \ train\_test\_split
from sklearn import metrics
data=pd.read_csv('/content/diabetesdata.csv')
data.head()
 ₽
data.describe()
#for statistical measures
X = data.drop(columns="Outcome",axis=1)
Y = data["Outcome"]
X_train,X_test,Y_train,Y_test = train_test_split(X,Y,test_size=0.2,stratify=Y,random_state= 2)
#classifier object
clf = DecisionTreeClassifier(criterion='entropy',max_depth=3)
#train clf
clf =clf.fit(X_train,Y_train)
#predict
y_pred =clf.predict(X_test)
#Accuracy
print(metrics.accuracy_score(Y_test, y_pred))
     0.7402597402597403
```

X