封装机器学习算法--KNN

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In [1]: from ML.decision_tree import DecisionTreeClassifier
         import numpy as np
In [2]: X = np.loadtxt('x.txt')
         y = np.loadtxt('y.txt')
In [3]: dt clf = DecisionTreeClassifier()
In [4]: dt_clf.fit(X, y)
Out[4]: d=2, v=2.45, g=0.5, l=None
In [5]: dt clf.tree
Out[5]: d=2, v=2.45, g=0.5, l=None
In [6]: dt_clf.predict(X[:3])
Out[6]: array([0., 0., 0.])
In [7]: y_predict = dt_clf.predict(X)
In [8]: from ML.metrics import accuracy_score
In [9]: accuracy score(y, y predict)
Out[9]: 0.98
In [10]: dt clf.accuracy rate(X, y) # 调用封装在决策树算法中的求准确率的函数
Out[10]: 0.98
In [11]: dt clf.show tree()
In [12]: from ML.knn import KNeighborsClassifier
In [13]: knn clf = KNeighborsClassifier()
In [14]: knn clf.fit(X, y)
Out[14]: <ML.knn.KNeighborsClassifier at 0x114d72940>
In [15]: knn_clf.predict(X[:3])
Out[15]: array([0., 0., 0.])
```

In [16]: knn_clf.accuracy_rate(X, y)

Out[16]: 0.966666666666667