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# import numpy as np
import pandas as pd
from sklearn.linear_model import LogisticRegression
from sklearn.metrics import accuracy_score
from matplotlib import pyplot as plt
from sklearn.model_selection import train_test_split
# matplotlib inline

data = pd.read_csv('Insurance.csv')

print(data.shape)
print(data)

age = data.drop('buy', axis=1)

train_x, test_x, train_y, test_y = train_test_split(age,
data.buy, test_size=0.5)
# train_x = age[:17]
# test_x = age[-10:]
#
# train_y = data.buy[:17]
# test_y = data.buy[-10:]

plt.scatter(data.age, data.buy, marker='+', color='red')

model = LogisticRegression()
model.fit(train_x, train_y)

y_predicted = model.predict(test_x)
print(y_predicted)

train_Acc = model.score(train_x, train_y)
print('train accuracy', train_Acc)

#print(test_y)
test_Acc = accuracy_score(test_y, y_predicted)
print('test accuracy=', test_Acc)

```