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import pandas as pd
import numpy as np
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import StandardScaler
from sklearn.linear_model import LinearRegression
from sklearn.metrics import mean_squared_error
# 读取数据
data = pd.read_csv('/Users/kerwinlv/downloads/bike.csv')
# 删除无用的id列
data.drop(columns=['id'], inplace=True)
# 提取目标变量y并删除y列
y = data['y'].values.reshape(-1, 1)
data.drop(columns=['y'], inplace=True)
# 转换为Numpy数组
X = data.values
# 将数据划分为训练集和测试集
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)
# 数据标准化
scaler X = StandardScaler()
scaler_y = StandardScaler()
X train = scaler X.fit transform(X train)
X_test = scaler_X.transform(X_test)
y_train = scaler_y.fit_transform(y_train)
y_test = scaler_y.transform(y_test)
# 构建线性回归模型并训练
model = LinearRegression()
model.fit(X_train, y_train)
# 使用模型预测
y_pred = model.predict(X_test)
# 将预测结果和测试标签反归一化
y_pred = scaler_y.inverse_transform(y_pred)
y test = scaler y.inverse transform(y test)
# 计算RMSE
rmse = np.sqrt(mean_squared_error(y_test, y_pred))
print(f"模型的RMSE值为: {rmse}")
```

模型的RMSE值为: 37.837369646879985