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import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LinearRegression
from sklearn.metrics import mean_squared_error
import matplotlib.pyplot as plt

dataset
data = {
    'area': [1000, 1500, 1800, 2400, 3000],
    'bedrooms': [2, 3, 3, 4, 5],
    'age': [10, 15, 20, 5, 8],
    'price': [200000, 250000, 300000, 400000, 500000]
}

df = pd.DataFrame(data)

Features and target
X = df[['area', 'bedrooms', 'age']]
y = df['price']

Split the data
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=0)

model = LinearRegression()
model.fit(X_train, y_train)

y_pred = model.predict(X_test)

mse = mean_squared_error(y_test, y_pred)
print(f'Mean Squared Error: {mse:.2f}')
predictions
plt.scatter(range(len(y_test)), y_test, color='blue', label='Actual')
plt.scatter(range(len(y_pred)), y_pred, color='red', label='Predicted')
plt.legend()
plt.title('Actual vs Predicted Prices')
plt.show()

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