



BostonData — Mozilla Firefox

Home x BostonData x BostonData x BostonData x The Boston Housing Data x sklearn.metrics.confusion x

localhost:8888/nbconvert/html/BostonData.ipynb?download=false 90%

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In [24]: from sklearn.model_selection import train_test_split
        from sklearn.linear_model import LinearRegression

In [32]: x_train, x_test, y_train, y_test = train_test_split(df_x, df_y, test_size = 0.4)

In [33]: model = LinearRegression()

In [34]: model.fit(x_train, y_train)
Out[34]: LinearRegression(copy_X=True, fit_intercept=True, n_jobs=1, normalize=False)

In [35]: pre = model.predict(x_test)

In [36]: pre
Out[36]: array([[ 4.74100000e-02,  7.31192833e-14,  1.19300000e+01, ...,
  2.10000000e+01,  3.96900000e+02,  7.88000000e+00],
 [ 1.04690000e-01,  4.00000000e+01,  6.41000000e+00, ...,
  1.76000000e+01,  3.89250000e+02,  6.05000000e+00],
 [ 1.17470000e-01,  1.25000000e+01,  7.87000000e+00, ...,
  1.52000000e+01,  3.96900000e+02,  1.32700000e+01],
 ...,
 [ 2.89550000e-01,  1.08843457e-13,  1.05900000e+01, ...,
  1.86000000e+01,  3.48930000e+02,  2.95500000e+01],
 [ 9.91655000e+00, -1.44857613e-13,  1.81000000e+01, ...,
  2.02000000e+01,  3.38160000e+02,  2.99700000e+01],
 [ 1.10874000e+01, -1.11837396e-13,  1.81000000e+01, ...,
  2.02000000e+01,  3.18750000e+02,  1.50200000e+01]])

In [37]: from sklearn.metrics import mean_squared_error

In [38]: print(mean_squared_error(y_test, pre))
4.669359311434853e-27
```