RadomForestClassifier

训练数据集(shape):

(20536, 61)

训练数据标签(shape):

(20536,)

Fitting 3 folds for each of 252 candidates, totalling 756 fits

[Parallel(n\_jobs=1)]: Done 756 out of 756 | elapsed: 78.4min finished

Best parameters set found on development set:

{'min\_samples\_leaf': 8, 'n\_estimators': 75}

Grid scores on development set:

best\_score\_

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0.978 (+/-0.011) for {'min\_samples\_leaf': 2, 'n\_estimators': 15}

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DecisionTreeClassifier:

训练数据集(shape):

(20536, 61)

训练数据标签(shape):

(20536,)

Fitting 3 folds for each of 182 candidates, totalling 546 fits

[Parallel(n\_jobs=1)]: Done 546 out of 546 | elapsed: 11.6min finished

Best parameters set found on development set:

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Grid scores on development set:

best\_score\_

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0.889 (+/-0.075) for {'max\_depth': 2, 'min\_samples\_leaf': 14}

0.889 (+/-0.075) for {'max\_depth': 2, 'min\_samples\_leaf': 16}

0.889 (+/-0.075) for {'max\_depth': 2, 'min\_samples\_leaf': 18}

0.889 (+/-0.075) for {'max\_depth': 2, 'min\_samples\_leaf': 20}

0.889 (+/-0.075) for {'max\_depth': 2, 'min\_samples\_leaf': 22}

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0.889 (+/-0.075) for {'max\_depth': 2, 'min\_samples\_leaf': 28}

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0.912 (+/-0.078) for {'max\_depth': 3, 'min\_samples\_leaf': 6}

0.912 (+/-0.078) for {'max\_depth': 3, 'min\_samples\_leaf': 8}

0.912 (+/-0.078) for {'max\_depth': 3, 'min\_samples\_leaf': 10}

0.912 (+/-0.078) for {'max\_depth': 3, 'min\_samples\_leaf': 12}

0.912 (+/-0.078) for {'max\_depth': 3, 'min\_samples\_leaf': 14}

0.912 (+/-0.078) for {'max\_depth': 3, 'min\_samples\_leaf': 16}

0.912 (+/-0.078) for {'max\_depth': 3, 'min\_samples\_leaf': 18}

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0.912 (+/-0.078) for {'max\_depth': 3, 'min\_samples\_leaf': 28}

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0.930 (+/-0.005) for {'max\_depth': 4, 'min\_samples\_leaf': 24}

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0.930 (+/-0.005) for {'max\_depth': 4, 'min\_samples\_leaf': 28}

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0.955 (+/-0.011) for {'max\_depth': 5, 'min\_samples\_leaf': 16}

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0.964 (+/-0.016) for {'max\_depth': 6, 'min\_samples\_leaf': 18}

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0.968 (+/-0.008) for {'max\_depth': 7, 'min\_samples\_leaf': 14}

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0.965 (+/-0.006) for {'max\_depth': 7, 'min\_samples\_leaf': 26}

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0.966 (+/-0.009) for {'max\_depth': 8, 'min\_samples\_leaf': 10}

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0.967 (+/-0.008) for {'max\_depth': 8, 'min\_samples\_leaf': 14}

0.967 (+/-0.008) for {'max\_depth': 8, 'min\_samples\_leaf': 16}

0.967 (+/-0.008) for {'max\_depth': 8, 'min\_samples\_leaf': 18}

0.967 (+/-0.007) for {'max\_depth': 8, 'min\_samples\_leaf': 20}

0.967 (+/-0.006) for {'max\_depth': 8, 'min\_samples\_leaf': 22}

0.966 (+/-0.007) for {'max\_depth': 8, 'min\_samples\_leaf': 24}

0.965 (+/-0.008) for {'max\_depth': 8, 'min\_samples\_leaf': 26}

0.966 (+/-0.012) for {'max\_depth': 8, 'min\_samples\_leaf': 28}

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0.967 (+/-0.008) for {'max\_depth': 9, 'min\_samples\_leaf': 4}

0.967 (+/-0.008) for {'max\_depth': 9, 'min\_samples\_leaf': 6}

0.968 (+/-0.007) for {'max\_depth': 9, 'min\_samples\_leaf': 8}

0.968 (+/-0.008) for {'max\_depth': 9, 'min\_samples\_leaf': 10}

0.968 (+/-0.007) for {'max\_depth': 9, 'min\_samples\_leaf': 12}

0.968 (+/-0.006) for {'max\_depth': 9, 'min\_samples\_leaf': 14}

0.968 (+/-0.007) for {'max\_depth': 9, 'min\_samples\_leaf': 16}

0.968 (+/-0.007) for {'max\_depth': 9, 'min\_samples\_leaf': 18}

0.968 (+/-0.006) for {'max\_depth': 9, 'min\_samples\_leaf': 20}

0.968 (+/-0.006) for {'max\_depth': 9, 'min\_samples\_leaf': 22}

0.965 (+/-0.008) for {'max\_depth': 9, 'min\_samples\_leaf': 24}

0.965 (+/-0.006) for {'max\_depth': 9, 'min\_samples\_leaf': 26}

0.966 (+/-0.012) for {'max\_depth': 9, 'min\_samples\_leaf': 28}

0.967 (+/-0.011) for {'max\_depth': 10, 'min\_samples\_leaf': 2}

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0.967 (+/-0.008) for {'max\_depth': 10, 'min\_samples\_leaf': 10}

0.968 (+/-0.009) for {'max\_depth': 10, 'min\_samples\_leaf': 12}

0.968 (+/-0.008) for {'max\_depth': 10, 'min\_samples\_leaf': 14}

0.968 (+/-0.009) for {'max\_depth': 10, 'min\_samples\_leaf': 16}

0.968 (+/-0.007) for {'max\_depth': 10, 'min\_samples\_leaf': 18}

0.968 (+/-0.007) for {'max\_depth': 10, 'min\_samples\_leaf': 20}

0.968 (+/-0.006) for {'max\_depth': 10, 'min\_samples\_leaf': 22}

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0.966 (+/-0.005) for {'max\_depth': 10, 'min\_samples\_leaf': 26}

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0.967 (+/-0.009) for {'max\_depth': 11, 'min\_samples\_leaf': 4}

0.967 (+/-0.009) for {'max\_depth': 11, 'min\_samples\_leaf': 6}

0.967 (+/-0.008) for {'max\_depth': 11, 'min\_samples\_leaf': 8}

0.967 (+/-0.008) for {'max\_depth': 11, 'min\_samples\_leaf': 10}

0.968 (+/-0.008) for {'max\_depth': 11, 'min\_samples\_leaf': 12}

0.968 (+/-0.006) for {'max\_depth': 11, 'min\_samples\_leaf': 14}

0.968 (+/-0.006) for {'max\_depth': 11, 'min\_samples\_leaf': 16}

0.968 (+/-0.006) for {'max\_depth': 11, 'min\_samples\_leaf': 18}

0.968 (+/-0.006) for {'max\_depth': 11, 'min\_samples\_leaf': 20}

0.967 (+/-0.006) for {'max\_depth': 11, 'min\_samples\_leaf': 22}

0.966 (+/-0.006) for {'max\_depth': 11, 'min\_samples\_leaf': 24}

0.965 (+/-0.005) for {'max\_depth': 11, 'min\_samples\_leaf': 26}

0.965 (+/-0.011) for {'max\_depth': 11, 'min\_samples\_leaf': 28}

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0.967 (+/-0.009) for {'max\_depth': 12, 'min\_samples\_leaf': 4}

0.967 (+/-0.009) for {'max\_depth': 12, 'min\_samples\_leaf': 6}

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0.967 (+/-0.007) for {'max\_depth': 12, 'min\_samples\_leaf': 10}

0.968 (+/-0.007) for {'max\_depth': 12, 'min\_samples\_leaf': 12}

0.967 (+/-0.006) for {'max\_depth': 12, 'min\_samples\_leaf': 14}

0.967 (+/-0.007) for {'max\_depth': 12, 'min\_samples\_leaf': 16}

0.967 (+/-0.005) for {'max\_depth': 12, 'min\_samples\_leaf': 18}

0.967 (+/-0.005) for {'max\_depth': 12, 'min\_samples\_leaf': 20}

0.966 (+/-0.004) for {'max\_depth': 12, 'min\_samples\_leaf': 22}

0.966 (+/-0.006) for {'max\_depth': 12, 'min\_samples\_leaf': 24}

0.964 (+/-0.008) for {'max\_depth': 12, 'min\_samples\_leaf': 26}

0.965 (+/-0.012) for {'max\_depth': 12, 'min\_samples\_leaf': 28}

0.966 (+/-0.008) for {'max\_depth': 13, 'min\_samples\_leaf': 2}

0.967 (+/-0.008) for {'max\_depth': 13, 'min\_samples\_leaf': 4}

0.967 (+/-0.009) for {'max\_depth': 13, 'min\_samples\_leaf': 6}

0.967 (+/-0.008) for {'max\_depth': 13, 'min\_samples\_leaf': 8}

0.967 (+/-0.008) for {'max\_depth': 13, 'min\_samples\_leaf': 10}

0.968 (+/-0.007) for {'max\_depth': 13, 'min\_samples\_leaf': 12}

0.967 (+/-0.006) for {'max\_depth': 13, 'min\_samples\_leaf': 14}

0.967 (+/-0.007) for {'max\_depth': 13, 'min\_samples\_leaf': 16}

0.967 (+/-0.005) for {'max\_depth': 13, 'min\_samples\_leaf': 18}

0.967 (+/-0.005) for {'max\_depth': 13, 'min\_samples\_leaf': 20}

0.966 (+/-0.004) for {'max\_depth': 13, 'min\_samples\_leaf': 22}

0.965 (+/-0.007) for {'max\_depth': 13, 'min\_samples\_leaf': 24}

0.965 (+/-0.006) for {'max\_depth': 13, 'min\_samples\_leaf': 26}

0.965 (+/-0.011) for {'max\_depth': 13, 'min\_samples\_leaf': 28}

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0.967 (+/-0.008) for {'max\_depth': 14, 'min\_samples\_leaf': 4}

0.967 (+/-0.009) for {'max\_depth': 14, 'min\_samples\_leaf': 6}

0.967 (+/-0.007) for {'max\_depth': 14, 'min\_samples\_leaf': 8}

0.967 (+/-0.007) for {'max\_depth': 14, 'min\_samples\_leaf': 10}

0.967 (+/-0.007) for {'max\_depth': 14, 'min\_samples\_leaf': 12}

0.968 (+/-0.007) for {'max\_depth': 14, 'min\_samples\_leaf': 14}

0.967 (+/-0.007) for {'max\_depth': 14, 'min\_samples\_leaf': 16}

0.967 (+/-0.005) for {'max\_depth': 14, 'min\_samples\_leaf': 18}

0.967 (+/-0.005) for {'max\_depth': 14, 'min\_samples\_leaf': 20}

0.966 (+/-0.004) for {'max\_depth': 14, 'min\_samples\_leaf': 22}

0.966 (+/-0.006) for {'max\_depth': 14, 'min\_samples\_leaf': 24}

0.965 (+/-0.006) for {'max\_depth': 14, 'min\_samples\_leaf': 26}

0.965 (+/-0.012) for {'max\_depth': 14, 'min\_samples\_leaf': 28}

Svm

训练数据集(shape):

(20536, 61)

训练数据标签(shape):

(20536,)

Fitting 3 folds for each of 32 candidates, totalling 96 fits

[Parallel(n\_jobs=1)]: Done 96 out of 96 | elapsed: 110.2min finished

Best parameters set found on development set:

{'C': 1000, 'gamma': 0.1, 'kernel': 'rbf'}

Grid scores on development set:

best\_score\_

0.9524605384180242

0.857 (+/-0.061) for {'C': 1, 'gamma': 0.1, 'kernel': 'linear'}

0.887 (+/-0.077) for {'C': 1, 'gamma': 0.1, 'kernel': 'rbf'}

0.857 (+/-0.061) for {'C': 1, 'gamma': 0.01, 'kernel': 'linear'}

0.852 (+/-0.091) for {'C': 1, 'gamma': 0.01, 'kernel': 'rbf'}

0.857 (+/-0.061) for {'C': 1, 'gamma': 0.001, 'kernel': 'linear'}

0.804 (+/-0.098) for {'C': 1, 'gamma': 0.001, 'kernel': 'rbf'}

0.857 (+/-0.061) for {'C': 1, 'gamma': 0.0001, 'kernel': 'linear'}

0.769 (+/-0.034) for {'C': 1, 'gamma': 0.0001, 'kernel': 'rbf'}

0.859 (+/-0.060) for {'C': 10, 'gamma': 0.1, 'kernel': 'linear'}

0.923 (+/-0.043) for {'C': 10, 'gamma': 0.1, 'kernel': 'rbf'}

0.859 (+/-0.060) for {'C': 10, 'gamma': 0.01, 'kernel': 'linear'}

0.867 (+/-0.074) for {'C': 10, 'gamma': 0.01, 'kernel': 'rbf'}

0.859 (+/-0.060) for {'C': 10, 'gamma': 0.001, 'kernel': 'linear'}

0.850 (+/-0.088) for {'C': 10, 'gamma': 0.001, 'kernel': 'rbf'}

0.859 (+/-0.060) for {'C': 10, 'gamma': 0.0001, 'kernel': 'linear'}

0.803 (+/-0.097) for {'C': 10, 'gamma': 0.0001, 'kernel': 'rbf'}

0.859 (+/-0.060) for {'C': 100, 'gamma': 0.1, 'kernel': 'linear'}

0.942 (+/-0.035) for {'C': 100, 'gamma': 0.1, 'kernel': 'rbf'}

0.859 (+/-0.060) for {'C': 100, 'gamma': 0.01, 'kernel': 'linear'}

0.889 (+/-0.073) for {'C': 100, 'gamma': 0.01, 'kernel': 'rbf'}

0.859 (+/-0.060) for {'C': 100, 'gamma': 0.001, 'kernel': 'linear'}

0.858 (+/-0.067) for {'C': 100, 'gamma': 0.001, 'kernel': 'rbf'}

0.859 (+/-0.060) for {'C': 100, 'gamma': 0.0001, 'kernel': 'linear'}

0.849 (+/-0.088) for {'C': 100, 'gamma': 0.0001, 'kernel': 'rbf'}

0.859 (+/-0.060) for {'C': 1000, 'gamma': 0.1, 'kernel': 'linear'}

0.952 (+/-0.024) for {'C': 1000, 'gamma': 0.1, 'kernel': 'rbf'}

0.859 (+/-0.060) for {'C': 1000, 'gamma': 0.01, 'kernel': 'linear'}

0.924 (+/-0.039) for {'C': 1000, 'gamma': 0.01, 'kernel': 'rbf'}

0.859 (+/-0.060) for {'C': 1000, 'gamma': 0.001, 'kernel': 'linear'}

0.868 (+/-0.067) for {'C': 1000, 'gamma': 0.001, 'kernel': 'rbf'}

0.859 (+/-0.060) for {'C': 1000, 'gamma': 0.0001, 'kernel': 'linear'}

0.856 (+/-0.067) for {'C': 1000, 'gamma': 0.0001, 'kernel': 'rbf'}

Knn

训练数据集(shape):

(20536, 61)

训练数据标签(shape):

(20536,)

Fitting 3 folds for each of 12 candidates, totalling 36 fits

[Parallel(n\_jobs=1)]: Done 36 out of 36 | elapsed: 50.4min finished

Best parameters set found on development set:

{'leaf\_size': 1, 'n\_neighbors': 1, 'weights': 'uniform'}

Grid scores on development set:

best\_score\_

0.9210408663031916

0.921 (+/-0.035) for {'leaf\_size': 1, 'n\_neighbors': 1, 'weights': 'uniform'}

0.902 (+/-0.038) for {'leaf\_size': 1, 'n\_neighbors': 2, 'weights': 'uniform'}

0.917 (+/-0.040) for {'leaf\_size': 1, 'n\_neighbors': 3, 'weights': 'uniform'}

0.906 (+/-0.040) for {'leaf\_size': 1, 'n\_neighbors': 4, 'weights': 'uniform'}

0.921 (+/-0.035) for {'leaf\_size': 2, 'n\_neighbors': 1, 'weights': 'uniform'}

0.902 (+/-0.038) for {'leaf\_size': 2, 'n\_neighbors': 2, 'weights': 'uniform'}

0.917 (+/-0.040) for {'leaf\_size': 2, 'n\_neighbors': 3, 'weights': 'uniform'}

0.906 (+/-0.040) for {'leaf\_size': 2, 'n\_neighbors': 4, 'weights': 'uniform'}

0.921 (+/-0.035) for {'leaf\_size': 3, 'n\_neighbors': 1, 'weights': 'uniform'}

0.902 (+/-0.038) for {'leaf\_size': 3, 'n\_neighbors': 2, 'weights': 'uniform'}

0.917 (+/-0.040) for {'leaf\_size': 3, 'n\_neighbors': 3, 'weights': 'uniform'}

0.906 (+/-0.040) for {'leaf\_size': 3, 'n\_neighbors': 4, 'weights': 'uniform'}