Python 3.6.2 (v3.6.2:5fd33b5, Jul 8 2017, 04:57:36) [MSC v.1900 64 bit (AMD64)] on win32

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>>>

RESTART: C:\Users\Ziyad Elshafei\Desktop\Bachelor main folder\main folder\GUI\Estimators comparison.py

training time for linear svc : 413.08505 s

Accuracy: 0.37 (+/- 0.06)

training time for SVC OVO: 8.44315 s

Accuracy: 0.68 (+/- 0.06)

training time for SVC ovr: 8.50213 s

Accuracy: 0.68 (+/- 0.06)

training time for KNeighborsClassifier: 9.23071 s

Accuracy: 0.68 (+/- 0.06)

training time for Forests of randomized tree classfier: 0.54787 s

Accuracy: 0.94 (+/- 0.03)

training time for Decision tree classfier: 0.20087 s

Accuracy: 0.91 (+/- 0.04)

training time for Random forest classfier: 0.4857 s

Accuracy: 0.94 (+/- 0.03)

training time for ExtraTreesClassifier: 0.44876 s

Accuracy: 0.93 (+/- 0.03)

training time for GradientBoostingClassfier: 7.76558 s

Accuracy: 0.94 (+/- 0.03)

training time for Naive bayes Gaussian : 0.08895 s

Accuracy: 0.96 (+/- 0.03)

training time for Naive bayes BernoulliNB : 1.25684 s

Accuracy: 0.54 (+/- 0.04)

training time for MLPClassifier : 6.82653 s

Accuracy: 0.76 (+/- 0.07)

training time for NearestCentroid : 0.09495 s

Accuracy: 0.35 (+/- 0.05)

training time for QuadraticDiscriminantAnalysis : 0.19163 s

Accuracy: 0.97 (+/- 0.03)

training time for NuSVC : 16.46088 s

Accuracy: 0.67 (+/- 0.06)

Warning (from warnings module):

File "C:\Users\Ziyad Elshafei\AppData\Local\Programs\Python\Python36\lib\site-packages\sklearn\linear\_model\stochastic\_gradient.py", line 84

"and default tol will be 1e-3." % type(self), FutureWarning)

FutureWarning: max\_iter and tol parameters have been added in <class 'sklearn.linear\_model.passive\_aggressive.PassiveAggressiveClassifier'> in 0.19. If both are left unset, they default to max\_iter=5 and tol=None. If tol is not None, max\_iter defaults to max\_iter=1000. From 0.21, default max\_iter will be 1000, and default tol will be 1e-3.

training time for PassiveAggressiveClassifier : 0.15891 s

Accuracy: 0.41 (+/- 0.05)

Warning (from warnings module):

File "C:\Users\Ziyad Elshafei\AppData\Local\Programs\Python\Python36\lib\site-packages\sklearn\linear\_model\stochastic\_gradient.py", line 84

"and default tol will be 1e-3." % type(self), FutureWarning)

FutureWarning: max\_iter and tol parameters have been added in <class 'sklearn.linear\_model.stochastic\_gradient.SGDClassifier'> in 0.19. If both are left unset, they default to max\_iter=5 and tol=None. If tol is not None, max\_iter defaults to max\_iter=1000. From 0.21, default max\_iter will be 1000, and default tol will be 1e-3.

training time for SGD classfier : 0.20187 s

Accuracy: 0.27 (+/- 0.10)

Warning (from warnings module):

File "C:\Users\Ziyad Elshafei\AppData\Local\Programs\Python\Python36\lib\site-packages\sklearn\linear\_model\stochastic\_gradient.py", line 84

"and default tol will be 1e-3." % type(self), FutureWarning)

FutureWarning: max\_iter and tol parameters have been added in <class 'sklearn.linear\_model.stochastic\_gradient.SGDClassifier'> in 0.19. If both are left unset, they default to max\_iter=5 and tol=None. If tol is not None, max\_iter defaults to max\_iter=1000. From 0.21, default max\_iter will be 1000, and default tol will be 1e-3.

training time for linear\_model.SGDClassifier : 0.15091 s

Accuracy: 0.28 (+/- 0.14)

>>>

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