SVM RBF kernel random parameter search for C and gamma

Search time ~ 27 mins

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82.75189606, 72.87863684, 69.35841123, 62.0209082 , 81.68202003,

71.34391975, 70.5515306 , 81.66855001, 63.46789289, 79.20612915,

65.11260986, 74.94382699, 82.13831798, 65.44436351, 73.18653973]),

'std\_fit\_time': array([1.20059079, 2.62097677, 2.95528542, 2.00355471, 1.21054149,

2.54919522, 1.49441518, 1.92071124, 1.54111244, 3.17094404,

1.99339709, 1.25984937, 1.13215097, 0.87075891, 1.59105211,

0.28644096, 3.07455063, 3.68414421, 1.63620297, 2.74103997]),

'mean\_score\_time': array([8.46242825, 8.37090246, 8.35678474, 8.32820837, 8.51468412,

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8.19849269, 8.21440808, 8.30691632, 7.41313728, 8.41603247,

7.90485708, 8.23335918, 8.43844787, 7.57773884, 7.90612555]),

'std\_score\_time': array([0.0610581 , 0.19801566, 0.06479037, 0.16585066, 0.15363718,

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0.033085 , 0.03152709, 0.00615013, 0.10965557, 0.14231577,

0.02975601, 0.05200163, 0.10898639, 0.04268954, 0.1702375 ]),

'param\_C': masked\_array(data=[2.209602254061174, 6.479197998006022,

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4.264752906385946, 3.128722503275811,

5.873081336593579, 8.308905941545847,

11.448645291386914, 2.7616900754057934,

2.7008015635852494, 5.320191775455632,

6.3765532905229225, 6.733970816481659,

9.012736172332481, 2.284060232418668,

9.062264858625882, 9.033197579781678,

6.082342548346405, 8.217581835073421],

mask=[False, False, False, False, False, False, False, False,

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False, False, False, False],

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dtype=object),

'param\_gamma': masked\_array(data=[0.8670701646824878, 0.22054161556730448,

0.7495504104423961, 0.33159433754757905,

0.36005494534932125, 0.7319048399664801,

0.4162456205956463, 0.3946510812889229,

0.2516257130972007, 0.8039096066639619,

0.40703819349926096, 0.4096226804289601,

0.8668440989734274, 0.10614926514043757,

0.7293403609566396, 0.18526529667690875,

0.5565289675398223, 1.0312187582625605,

0.13839085006161692, 0.46062922824524044],

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0.80739796, 0.80739796, 0.80883291, 0.80197704, 0.80835459,

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0.80290225, 0.806251 , 0.806251 , 0.80066975, 0.80513475]),

'split2\_test\_score': array([0.80526316, 0.80191388, 0.80478469, 0.8030303 , 0.80287081,

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'mean\_test\_score': array([0.80688885, 0.80306171, 0.80656993, 0.80433743, 0.80433743,

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'std\_test\_score': array([0.00147469, 0.00160081, 0.00152667, 0.00182617, 0.00152584,

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'split0\_train\_score': array([0.99816602, 0.9979268 , 0.99832549, 0.9979268 , 0.99800654,

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'split2\_train\_score': array([0.9978474 , 0.99760823, 0.99824603, 0.9975285 , 0.99776768,

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0.99537552, 0.99819274, 0.99829905, 0.99720938, 0.99819274]),

'std\_train\_score': array([1.35395504e-04, 1.35380544e-04, 6.50465540e-05, 1.72103698e-04,

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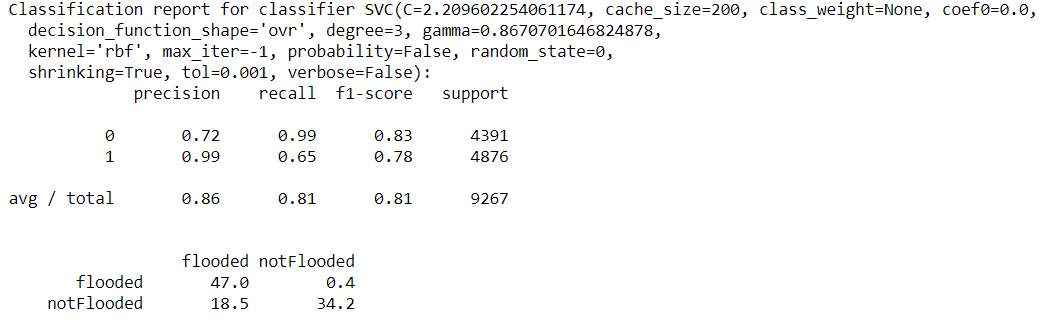
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Best params

{'C': 2.209602254061174, 'gamma': 0.8670701646824878}



Best params for random forest

{'n\_estimators': 800,

'min\_samples\_split': 10,

'min\_samples\_leaf': 2,

'max\_features': 'sqrt',

'max\_depth': 20,

'bootstrap': False}