

### ### For train-test ratio 60:40

accuracy\_score for reg\_val 0.1 : 0.9333333333333333

f1\_score for reg\_val 0.1 : 0.9332345679012346

confusion\_matrix for reg\_val 0.1 : [[19 0 0]

[ 0 11 2]

[ 0 1 12]]

accuracy\_score for reg\_val 1 : 1.0

f1\_score for reg\_val 1 : 1.0

confusion\_matrix for reg\_val 1 : [[19 0 0]

[ 0 13 0]

[ 0 0 13]]

accuracy\_score for reg\_val 10 : 0.9777777777777777

f1\_score for reg\_val 10 : 0.9777448559670783

confusion\_matrix for reg\_val 10 : [[19 0 0]

[ 0 12 1]

[ 0 0 13]]

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### ### For train-test ratio 60:40

accuracy\_score : 0.9666666666666667

f1\_score : 0.9666666666666667

confusion\_matrix : [[23 0 0]

[ 0 18 1]

[ 0 1 17]]

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### ### For train-test ratio 80:20

accuracy\_score : 0.9666666666666667

f1\_score : 0.9664109121909632

confusion\_matrix : [[10 0 0]

[ 0 8 1]

[ 0 0 11]]