

Scale range 1:100
Imresize[100, 32]
Bepoch 1:10

Linear Kernal

C = 0.01

1vs2

SVMAccuracy : 33.3333

SVMConfusionMatrix

55 45

88 12

1vs3

SVMAccuracy : 57.5758

SVMConfusionMatrix

73 27

58 42

2vs3

SVMAccuracy : 54.5455

SVMConfusionMatrix

73 27

64 36

1vs2vs3

SVMAccuracy : 35.3535

SVMConfusionMatrix

18 67 15

36 58 6

24 45 30

C = 0.1

1vs2

SVMAccuracy : 51.5152

SVMConfusionMatrix

52 48

48 52

1vs3

SVMAccuracy : 53.0303

SVMConfusionMatrix

55 45

48 52

2vs3

SVMAccuracy : 57.5758

SVMConfusionMatrix

76 24

61 39

1vs2vs3

SVMAccuracy : 36.3636

SVMConfusionMatrix

48 33 18

45 33 21

33 39 27

C = 1

1vs2

SVMAccuracy : 63.6364

SVMConfusionMatrix

61 39

33 67

1vs3

SVMAccuracy : 54.5455

SVMConfusionMatrix

58 42

48 52

2vs3

SVMAccuracy : 59.0909

SVMConfusionMatrix

73 27

55 45

1vs2vs3

SVMAccuracy : 32.3232

SVMConfusionMatrix

36 36 27

42 27 30

33 33 33

C = 10

1vs2

SVMAccuracy : 66.6667

SVMConfusionMatrix

64 36

30 70

1vs3

SVMAccuracy : 51.5152

SVMConfusionMatrix

52 48

48 52

2vs3

SVMAccuracy : 51.5152

SVMConfusionMatrix

61 39

58 42

1vs2vs3

SVMAccuracy : 30.303

SVMConfusionMatrix

39 27 33

45 18 36

27 39 33

C = 100

1vs2

SVMAccuracy : 66.6667

SVMConfusionMatrix

64 36

30 70

1vs3

SVMAccuracy : 53.0303

SVMConfusionMatrix

52 48

45 55

2vs3

SVMAccuracy : 53.0303

SVMConfusionMatrix

64 36

58 42

1vs2vs3

SVMAccuracy : 31.3131

SVMConfusionMatrix

39 27 33

45 21 33

30 36 33

Polynomial Kernal

C = 0.01

1vs2

SVMAccuracy : 48.4848

SVMConfusionMatrix

12 88

15 85

1vs3

SVMAccuracy : 56.0606

SVMConfusionMatrix

55 45

42 58

2vs3

SVMAccuracy : 43.9394

SVMConfusionMatrix

85 15

97 3

1vs2vs3

SVMAccuracy : 35.3535

SVMConfusionMatrix

9 91 0

6 94 0

3 94 3

C = 0.1

1vs2

SVMAccuracy : 48.4848

SVMConfusionMatrix

24 76

27 73

1vs3

SVMAccuracy : 39.3939

SVMConfusionMatrix

48 52

70 30

2vs3

SVMAccuracy : 42.4242

SVMConfusionMatrix

30 70

45 55

1vs2vs3

SVMAccuracy : 31.3131

SVMConfusionMatrix

15 76 9

21 70 9

27 64 9

C = 1

1vs2

SVMAccuracy : 42.4242

SVMConfusionMatrix

52 48

67 33

1vs3

SVMAccuracy : 43.9394

SVMConfusionMatrix

55 45

67 33

2vs3

SVMAccuracy : 54.5455

SVMConfusionMatrix

70 30

61 39

1vs2vs3

SVMAccuracy : 30.303

SVMConfusionMatrix

45 30 24

70 21 9

64 12 24

C = 10

1vs2

SVMAccuracy : 40.9091

SVMConfusionMatrix

33 67

52 48

1vs3

SVMAccuracy : 51.5152

SVMConfusionMatrix

48 52

45 55

2vs3

SVMAccuracy : 54.5455

SVMConfusionMatrix

55 45

45 55

1vs2vs3

SVMAccuracy : 36.3636

SVMConfusionMatrix

30 36 33

33 39 27

30 30 39

C = 100

1vs2

SVMAccuracy : 39.3939

SVMConfusionMatrix

33 67

55 45

1vs3

SVMAccuracy : 48.4848

SVMConfusionMatrix

48 52

52 48

2vs3

SVMAccuracy : 59.0909

SVMConfusionMatrix

76 24

58 42

1vs2vs3

SVMAccuracy : 31.3131

SVMConfusionMatrix

27 33 39

33 39 27

36 36 27

RBF Kernal

C = 0.01

1vs2

SVMAccuracy : 48.4848

SVMConfusionMatrix

67 33

70 30

1vs3

SVMAccuracy : 46.9697

SVMConfusionMatrix

48 52

55 45

2vs3

SVMAccuracy : 40.9091

SVMConfusionMatrix

30 70

48 52

1vs2vs3

SVMAccuracy : 28.2828

SVMConfusionMatrix

18 33 48

39 24 36

C = 0.1

1vs2

SVMAccuracy : 48.4848

SVMConfusionMatrix

67 33

70 30

1vs3

SVMAccuracy : 46.9697

SVMConfusionMatrix

48 52

55 45

2vs3

SVMAccuracy : 40.9091

SVMConfusionMatrix

30 70

48 52

1vs2vs3

SVMAccuracy : 28.2828

SVMConfusionMatrix

18 33 48

39 24 36

C = 1

1vs2

SVMAccuracy : 39.3939

SVMConfusionMatrix

39 61

61 39

1vs3

SVMAccuracy : 46.9697

SVMConfusionMatrix

52 48

58 42

2vs3

SVMAccuracy : 45.4545

SVMConfusionMatrix

48 52

58 42

1vs2vs3

SVMAccuracy : 31.3131

SVMConfusionMatrix

33 42 24

39 24 36

C = 10

1vs2

SVMAccuracy : 40.9091

SVMConfusionMatrix

39 61

58 42

1vs3

SVMAccuracy : 53.0303

SVMConfusionMatrix

67 33

61 39

2vs3

SVMAccuracy : 45.4545

SVMConfusionMatrix

36 64

45 55

1vs2vs3

SVMAccuracy : 36.3636

SVMConfusionMatrix

45 36 18

39 24 36

C = 100

1vs2

SVMAccuracy : 37.8788

SVMConfusionMatrix

33 67

58 42

1vs3

SVMAccuracy : 57.5758

SVMConfusionMatrix

67 33

52 48

2vs3

SVMAccuracy : 51.5152

SVMConfusionMatrix

45 55

42 58

1vs2vs3

SVMAccuracy : 37.3737

SVMConfusionMatrix

55 33 12

39 24 36

1vs2vs3
SVMAccuracy : 28.2828
SVMConfusionMatrix
18 33 48
39 24 36
33 24 42

1vs2vs3
SVMAccuracy : 28.2828
SVMConfusionMatrix
18 33 48
39 24 36
33 24 42

1vs2vs3
SVMAccuracy : 31.3131
SVMConfusionMatrix
33 42 24
48 24 27
27 36 36

1vs2vs3
SVMAccuracy : 36.3636
SVMConfusionMatrix
45 36 18
42 27 30
36 27 36

1vs2vs3
SVMAccuracy : 37.3737
SVMConfusionMatrix
55 33 12
39 30 30
42 30 27