Lab report

ComS 573

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This is the output of my code:

Thanks!

------THIS IS Class priors --------

P(Omega = 1) = 0.042594727

P(Omega = 2) = 0.05155737

P(Omega = 3) = 0.05075872

P(Omega = 4) = 0.052089803

P(Omega = 5) = 0.051024936

P(Omega = 6) = 0.0525335

P(Omega = 7) = 0.05164611

P(Omega = 8) = 0.0525335

P(Omega = 9) = 0.052888457

P(Omega = 10) = 0.052710976

P(Omega = 11) = 0.053065933

P(Omega = 12) = 0.052710976

P(Omega = 13) = 0.05244476

P(Omega = 14) = 0.052710976

P(Omega = 15) = 0.052622236

P(Omega = 16) = 0.053154673

P(Omega = 17) = 0.048362765

P(Omega = 18) = 0.050048806

P(Omega = 19) = 0.041174904

P(Omega = 20) = 0.03336587

464,0,0,0,0,0,0,0,0,0,1,0,0,0,0,11,0,1,1,2,

1,534,6,15,1,9,2,0,1,0,0,2,1,1,2,4,0,0,2,0,

1,10,503,23,1,20,2,0,0,0,0,7,1,1,0,2,0,0,1,0,

0,10,4,546,4,4,6,2,0,0,0,0,3,0,1,2,0,2,2,1,

2,5,2,7,541,3,1,0,2,0,0,2,1,2,2,3,0,1,1,0,

0,11,8,1,2,562,0,0,1,1,0,2,0,1,1,0,1,0,1,0,

2,3,2,34,6,2,451,17,1,3,3,16,15,5,4,5,5,1,7,0,

1,0,0,3,1,2,3,572,1,1,0,1,0,0,0,1,1,1,3,1,

0,1,0,1,1,0,4,1,574,0,0,0,0,2,0,2,6,1,3,0,

0,3,0,1,0,1,1,3,0,577,4,0,0,1,0,1,2,0,0,0,

1,0,1,2,0,1,0,2,0,0,585,1,0,0,0,1,0,2,2,0,

0,2,0,0,0,0,0,0,0,0,0,582,0,1,0,0,3,1,5,0,

1,4,0,15,5,0,3,2,0,0,1,5,546,2,2,1,2,0,2,0,

0,1,0,0,0,1,0,1,0,0,0,1,2,580,0,5,2,0,1,0,

2,2,0,1,0,1,0,1,0,0,0,1,0,2,580,1,0,0,2,0,

0,0,0,2,0,1,0,0,0,0,1,0,0,0,0,589,1,3,2,0,

0,0,0,0,0,0,0,1,0,0,0,0,0,0,0,2,537,2,3,0,

1,1,0,0,0,0,0,0,0,1,1,1,0,2,0,6,0,546,5,0,

2,2,0,0,0,0,0,0,0,1,0,3,0,1,0,1,2,2,450,0,

25,0,0,0,0,0,0,0,2,0,0,0,0,0,1,39,15,4,4,286,

Overall Accuracy = 0.9410773

Class Accuracy:

Group 1: 0.96666664

Group 2: 0.919105

Group 3: 0.8793706

Group 4: 0.9301533

Group 5: 0.94086957

Group 6: 0.9493243

Group 7: 0.7749141

Group 8: 0.9662162

Group 9: 0.96308726

Group 10: 0.9713805

Group 11: 0.9782609

Group 12: 0.97979796

Group 13: 0.92385787

Group 14: 0.97643095

Group 15: 0.9780776

Group 16: 0.9833055

Group 17: 0.9853211

Group 18: 0.9680851

Group 19: 0.9698276

Group 20: 0.7606383

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235,0,0,0,0,1,0,0,0,0,1,1,1,2,3,45,3,10,7,9,

3,296,6,12,7,22,1,3,2,0,0,17,4,4,7,4,0,0,1,0,

3,33,207,58,11,31,0,2,2,2,1,17,1,4,4,5,0,0,9,1,

0,8,15,305,21,2,4,6,0,0,1,6,23,0,1,0,0,0,0,0,

0,8,10,37,273,3,4,4,1,1,0,6,17,8,2,0,3,0,6,0,

0,42,7,10,2,306,1,0,2,1,0,10,0,0,3,2,1,1,2,0,

0,9,4,50,20,1,226,32,5,0,1,3,11,2,3,4,2,3,6,0,

1,1,0,2,0,1,5,356,4,2,0,1,4,0,2,1,4,2,9,0,

0,1,0,0,0,0,0,26,353,2,0,1,1,1,0,1,4,2,5,0,

4,1,0,1,1,2,3,3,1,345,17,2,2,0,0,3,1,2,9,0,

2,0,0,0,0,0,1,1,0,4,381,1,0,2,1,2,0,1,3,0,

0,4,1,1,2,1,1,0,0,0,0,361,3,2,0,2,8,0,8,1,

2,18,0,27,8,3,1,10,2,0,0,46,259,6,3,6,0,2,0,0,

10,7,1,3,0,0,0,4,0,1,0,1,3,324,3,17,3,6,10,0,

3,7,0,0,0,2,0,0,1,0,1,4,4,4,335,5,1,2,22,1,

7,2,1,0,1,2,0,0,0,0,0,1,0,1,0,377,2,2,1,1,

1,0,0,0,1,0,1,2,1,1,1,3,0,1,2,3,325,2,16,4,

12,1,0,0,0,0,0,2,1,1,1,4,0,0,0,8,3,325,18,0,

6,1,0,0,0,1,0,1,0,0,0,3,0,3,7,3,95,5,184,1,

47,3,0,0,0,0,0,0,1,0,0,1,0,3,5,70,19,5,8,89,

Overall Accuracy = 0.7810793

Class Accuracy:

Group 1: 0.7389937

Group 2: 0.7609255

Group 3: 0.5294118

Group 4: 0.7780612

Group 5: 0.7127937

Group 6: 0.7846154

Group 7: 0.591623

Group 8: 0.9012658

Group 9: 0.88916874

Group 10: 0.86901766

Group 11: 0.9548872

Group 12: 0.91392404

Group 13: 0.65903306

Group 14: 0.8244275

Group 15: 0.85459185

Group 16: 0.9472362

Group 17: 0.89285713

Group 18: 0.8643617

Group 19: 0.59354836

Group 20: 0.35458168

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316,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,1,1,

352,26,2,1,1,4,0,0,0,0,0,0,1,0,2,0,0,0,0,0,

354,3,19,6,3,1,0,0,0,0,0,1,1,2,0,0,1,0,0,0,

350,3,5,28,2,0,4,0,0,0,0,0,0,0,0,0,0,0,0,0,

351,2,0,2,22,0,1,0,0,0,0,0,4,1,0,0,0,0,0,0,

351,2,0,1,1,33,0,0,0,0,0,0,0,1,0,0,1,0,0,0,

317,4,2,4,1,0,46,2,2,0,1,0,0,0,1,0,1,0,0,1,

369,0,0,0,0,0,1,19,2,0,0,1,2,0,0,0,0,0,0,1,

376,0,0,0,0,0,0,1,20,0,0,0,0,0,0,0,0,0,0,0,

372,0,0,0,0,0,1,0,0,21,3,0,0,0,0,0,0,0,0,0,

363,0,0,0,0,0,0,0,0,0,36,0,0,0,0,0,0,0,0,0,

375,1,0,0,1,0,0,0,0,0,0,17,1,0,0,0,0,0,0,0,

373,1,0,2,0,0,3,1,0,0,0,3,8,1,1,0,0,0,0,0,

375,0,0,0,0,0,1,0,0,0,0,1,1,14,0,0,1,0,0,0,

375,0,0,0,0,0,0,0,0,0,0,0,0,0,17,0,0,0,0,0,

367,0,0,0,0,0,0,0,0,0,0,0,0,1,0,27,0,1,1,1,

350,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,12,1,0,1,

358,1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,1,15,1,0,

297,0,0,0,0,0,0,0,0,0,0,0,0,1,1,1,2,0,8,0,

237,0,0,0,0,0,0,0,0,0,0,0,0,1,1,4,0,0,2,6,

Overall Accuracy = 0.0946036

Class Accuracy:

Group 1: 0.9937107

Group 2: 0.06683805

Group 3: 0.04859335

Group 4: 0.071428575

Group 5: 0.057441253

Group 6: 0.08461539

Group 7: 0.12041885

Group 8: 0.048101265

Group 9: 0.050377835

Group 10: 0.052896727

Group 11: 0.09022556

Group 12: 0.043037973

Group 13: 0.020356234

Group 14: 0.03562341

Group 15: 0.04336735

Group 16: 0.0678392

Group 17: 0.032967035

Group 18: 0.039893616

Group 19: 0.025806451

Group 20: 0.023904383

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