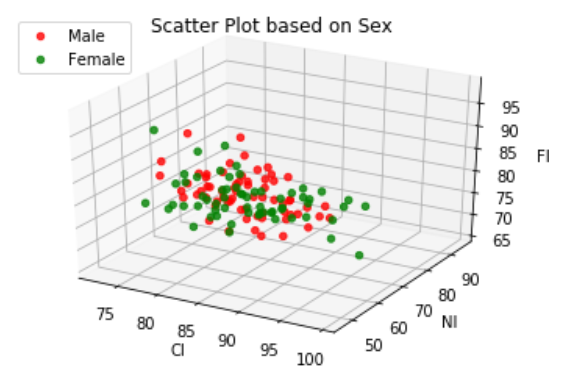
Dataset: Nationality Malaysian, ethinicity all

Number of Samples = 126



Test Dataset Size = 25%

Attributes used(5): Age, Ethinicity, HI, FI, NI

Cross Tabulation on test dataset

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | Predicted Cluster | |
|  |  | 0 | 1 |
| Actual Class | Male | 13 | 3 |
| Female | 8 | 8 |

Predicting 0 cluster as male and 1 cluster as female we get the following results.

Accuracy = 65.625%

Precision for predicting Male =61.9%

Precision for predicting Female =72.73%%

Recall for predicting Male = 81.25%

Recall for predicting Female = 50%

Output

PIN Age Ethinicity CI NI FI prediction

0 3 20 1 79.586563 62.601626 83.061889 0

1 11 20 1 85.175202 60.162602 90.491803 0

2 32 19 1 84.139785 55.384615 88.141026 0

3 34 19 1 76.021798 57.142857 87.162162 0

4 114 21 1 79.941349 76.388889 69.039146 1

5 122 21 1 78.258575 69.662921 73.870968 1

6 123 20 1 78.740157 80.487805 75.895765 1

7 132 21 1 84.078212 77.922078 65.986395 1

8 173 21 1 82.764228 84.745763 71.612903 1

9 182 21 1 87.464387 68.539326 74.394464 1

10 183 19 1 83.701657 67.833698 78.378378 0

11 188 21 1 79.373368 85.393258 75.000000 1

12 206 20 1 78.688525 76.344086 75.000000 1

13 209 22 1 86.290323 80.898876 67.761194 1

14 210 21 1 87.500000 70.212766 74.836601 1

15 211 21 1 89.807163 78.160920 72.164948 1

16 228 20 1 84.078212 74.444444 75.577558 1

17 243 21 1 87.798408 82.758621 72.580645 1

18 244 21 1 79.508197 69.072165 76.428571 1

19 246 22 1 79.187817 63.636364 78.040541 0

20 247 18 1 85.635359 63.333333 76.254181 0

21 274 19 1 84.297521 61.403509 93.700787 0

22 31 23 2 79.032258 73.076923 82.578397 1

23 99 18 2 77.272727 69.565217 80.645161 0

24 102 21 2 78.571429 69.411765 75.000000 1

25 181 19 2 75.438596 65.476190 77.655678 0

26 184 21 2 75.438596 75.000000 75.432526 1

27 194 20 2 72.074468 67.441860 79.285714 0

28 197 21 2 82.548476 54.838710 77.090909 0

29 214 19 2 83.244681 69.662921 69.934641 1

30 216 21 2 81.666667 64.516129 71.000000 0

31 249 18 2 80.504202 70.329670 78.467153 1

32 258 26 2 77.197802 81.818182 74.820144 1

33 263 25 2 75.346260 71.428571 74.733096 1

34 264 26 2 76.502732 69.565217 76.595745 1

35 265 18 2 83.720930 63.043478 77.121771 0

36 266 18 2 74.210526 79.545455 73.404255 1

37 267 20 2 80.818414 73.333333 72.666667 1

38 268 22 2 77.839335 91.139241 75.367647 1

39 269 22 2 83.888889 68.750000 84.172662 0

40 271 18 2 79.558011 56.140351 83.834586 0

41 275 23 2 74.400000 75.000000 78.066914 1

42 281 21 2 84.657534 72.527473 80.701754 1

43 283 19 2 76.584022 65.048544 90.943396 0

44 4 20 3 85.754190 65.740741 81.818182 0

45 103 23 3 80.327869 81.395349 72.508591 1

46 126 22 3 83.581267 81.333333 78.291815 1

47 127 22 3 77.819149 92.592593 73.225806 1

48 128 22 3 77.437326 60.532688 78.521127 0

49 195 20 3 82.707182 73.921971 71.096346 1

50 207 21 3 84.770115 75.609756 74.452555 1

51 221 22 3 80.487805 68.750000 75.986842 1

52 232 22 3 82.777778 62.628337 79.461279 0

53 233 22 3 79.569892 70.454545 74.827586 1

54 248 22 3 86.920981 74.725275 73.244147 1

55 253 20 3 80.216802 71.875000 78.694158 1

56 254 21 3 85.502959 75.903614 75.378788 1

57 256 21 3 87.905605 75.280899 74.914089 1

58 259 21 3 90.087464 59.782609 80.071174 0

59 260 21 3 83.791209 70.833333 73.702422 1

60 262 20 3 82.535211 67.010309 82.918149 0

61 276 20 3 84.401114 68.478261 69.508197 1

62 277 22 3 91.343284 69.148936 76.206897 1

63 278 21 3 80.055402 76.666667 76.791809 1

64 279 21 3 77.720207 73.863636 75.675676 1

65 2 19 1 87.887324 75.700935 75.728155 1

66 12 21 1 81.402439 64.347826 90.036900 0

67 33 20 1 79.938272 73.958333 80.144404 1

68 36 19 1 84.726225 66.964286 75.333333 0

69 101 22 1 84.340659 69.565217 74.496644 1

70 116 21 1 80.229226 74.074074 75.585284 1

71 117 22 1 78.651685 73.611111 66.440678 1

72 118 21 1 86.319018 95.238095 67.657993 1

73 119 20 1 76.011236 78.947368 73.519164 1

74 121 20 1 77.551020 83.783784 70.774648 1

75 134 21 1 81.088825 73.684211 71.830986 1

76 171 19 1 80.597015 92.112676 69.963370 1

77 172 21 1 80.645161 84.285714 68.248175 1

78 185 20 1 80.594901 87.654321 70.169492 1

79 186 22 1 85.871453 87.500000 73.684211 1

80 208 23 1 92.401216 83.950617 73.793103 1

81 234 24 1 83.045977 78.048780 69.520548 1

82 236 23 1 75.675676 77.108434 69.314079 1

83 272 18 1 94.736842 69.306931 81.007752 0

84 273 18 1 82.318841 52.066116 93.023256 0

85 26 21 2 85.373134 54.054054 87.937743 0

86 46 18 2 73.816156 76.000000 76.752768 1

87 100 20 2 79.651163 61.052632 79.377432 0

88 104 21 2 80.588235 51.612903 80.784314 0

89 111 21 2 79.819277 50.000000 81.322957 0

90 112 22 2 76.504298 57.731959 76.579926 0

91 113 23 2 80.952381 78.048780 69.767442 1

92 115 21 2 74.202899 56.097561 77.642276 0

93 187 22 2 76.744186 89.230769 69.884170 1

94 196 22 2 85.579937 68.674699 75.193798 1

95 199 21 2 81.415929 60.919540 75.609756 0

96 200 20 2 76.308540 67.073171 69.178082 1

97 213 20 2 84.883721 53.684211 81.180812 0

98 245 20 2 80.235988 68.181818 78.787879 0

99 250 25 2 81.971831 75.903614 76.258993 1

100 251 23 2 77.197802 62.037037 81.349206 0

101 257 25 2 82.317073 58.139535 79.615385 0

102 270 19 2 79.069767 46.601942 98.206278 0

103 280 20 2 77.556818 57.608696 82.625483 0

104 282 20 2 79.585799 62.790698 77.985075 0

105 24 21 3 81.415929 62.500000 85.171103 0

106 25 21 3 77.562327 60.714286 83.695652 0

107 49 21 3 86.309524 80.000000 70.503597 1

108 50 20 3 79.420290 72.151899 69.056604 1

109 105 22 3 99.348534 58.695652 74.169742 0

110 106 22 3 83.923706 86.250000 72.093023 1

111 108 24 3 85.882353 80.000000 76.923077 1

112 109 22 3 79.202279 75.000000 81.439394 1

113 110 23 3 86.666667 54.255319 84.701493 0

114 124 22 3 77.743902 79.189189 74.626866 1

115 125 22 3 77.108434 71.250000 70.289855 1

116 135 22 3 81.492537 76.923077 72.222222 1

117 202 19 3 91.265060 74.074074 69.395018 1

118 203 22 3 87.987988 69.047619 74.642857 1

119 204 22 3 87.974684 85.277778 68.560606 1

120 205 22 3 80.955154 65.176471 78.148148 0

121 220 22 3 86.268657 70.588235 75.572519 1

122 230 20 3 78.098472 63.736264 75.746269 0

123 231 20 3 81.303116 72.599532 73.529412 1

124 238 22 3 87.311178 78.048780 75.618375 1

125 239 22 3 85.896692 71.951220 75.280899 1