```
Mean: [[5.006      3.418      1.464      0.244    ]
 [5.91496993 2.77784368 4.20155394 1.29696713]
 [6.54454911 2.94866132 5.47955435 1.98460553]]
Covariance Matrices: [[[0.121764   0.098292   0.015816   0.010336  ]
  [0.098292   0.142276   0.011448   0.011208  ]
  [0.015816   0.011448   0.029504   0.005584  ]
  [0.010336   0.011208   0.005584   0.011264  ]]

 [[0.27531879 0.0969413  0.18466249 0.05439079]
  [0.0969413  0.09264602 0.09114314 0.04299734]
  [0.18466249 0.09114314 0.20063069 0.06097859]
  [0.05439079 0.04299734 0.06097859 0.03199701]]

 [[0.3870443  0.09220792 0.30281157 0.06165084]
  [0.09220792 0.11033771 0.08428747 0.05601144]
  [0.30281157 0.08428747 0.32779686 0.07452963]
  [0.06165084 0.05601144 0.07452963 0.08579751]]]
Iteration count: 23
Cluster Membership: [0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 2 1 2 1
 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2
 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
 2 2]
Size: [np.int64(50), np.int64(45), np.int64(55)]
Purity: 0.967
```