```
In [141]: from sklearn.mixture import GaussianMixture
In [142]: gm = GaussianMixture(n components=3, n init=10, random state=42)
          gm.fit(X)
Out[142]: GaussianMixture(n components=3, n init=10, random state=42)
In [143]: gm.weights_
Out[143]: array([0.39054348, 0.2093669 , 0.40008962])
In [144]: gm.means_
Out[144]: array([[ 0.05224874, 0.07631976],
                 [ 3.40196611, 1.05838748],
                 [-1.40754214, 1.42716873]])
In [145]: gm.covariances_
Out[145]: array([[[ 0.6890309 , 0.79717058],
                 [ 0.79717058, 1.21367348]],
                 [[1.14296668, -0.03114176],
                 [-0.03114176, 0.9545003]],
                 [[ 0.63496849, 0.7298512 ],
                  [ 0.7298512 , 1.16112807]]])
```