Implementing EM for Gaussian mixtures

Quiz, 6 questions

5.71/6 points (95.23%)

Congratulations! You passed!

Next Item

1. What is the weight that EM assigns to the first component after running the above codeblock? Round your answer to 3 decimal places.

1 / 1 point

2. Using the same set of results, obtain the mean that EM assigns the second component. What is the mean in the first dimension? Round your answer to 3 decimal places.

1 / 1 point

3. Using the same set of results, obtain the covariance that EM assigns the third component. What is the variance in the first dimension? Round your answer to 3 decimal places.

1 / 1 point

4. Is the loglikelihood plot monotonically increasing, monotonically decreasing, or neither?

1 / 1 point

5. Calculate the likelihood (score) of the first image in our data set (img[0]) under each Gaussian component through a call to `multivariate_normal.pdf`. Given these values, what cluster assignment should we make for this image?

1 / 1 point

6. **Four** of the following images are **not** in the list of top 5 images in the **first cluster**. Choose these four.

0.71 / 1 point