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Implementing EM for Gaussian mixtures

6 questions

1 point

1.

What is the weight that EM assigns to the first component after running the above codeblock?

0.300710230061

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?

4.94239235298

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?

0.671149918972

Implementing EM for Gaussian mixtures Coursera	
1 point	
4. Is the loglikelihood plot monotonically increasing, monotonically decreasing, or neither?	
O M	Ionotonically increasing
O M	Ionotonically decreasing
O N	leither
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?	
	luster 0
O c	luster 1
O c	luster 2
O 0	luster 3
1 point 6. Which of the following images are not in the list of top 5 images in the first cluster?	
☐ Ir	mage 1
☐ Ir	mage 2

Image 3

Image 4

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Image 5

Image 6

Image 7



