Implementing EM for Gaussian mixtures

6 试题

1 point

1.

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

0.300

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.

4.942

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.

0.6	/1
1 point	
4. s the lo	oglikelihood plot monotonically increasing, monotonically
	sing, or neither?
	Monotonically increasing
\bigcirc	Monotonically decreasing
	Worldcorneally decreasing
\bigcirc	Neither
1	
point	
<u> </u>	
5.	
	te the likelihood (score) of the first image in our data set
O	under each Gaussian component through a call to
	rariate_normal.pdf`. Given these values, what cluster
assignn	
\bigcirc	nent should we make for this image?
	_
	cluster 0
	_
	Cluster 0 Cluster 1
\bigcirc	Cluster 0
	Cluster 0 Cluster 1
	Cluster 0 Cluster 1 Cluster 2
OOO	Cluster 0 Cluster 1 Cluster 2
OOO	Cluster 0 Cluster 1 Cluster 2
	Cluster 0 Cluster 1 Cluster 2
1 point	Cluster 0 Cluster 1 Cluster 2 Cluster 3
point	Cluster 0 Cluster 1 Cluster 2 Cluster 3
point	Cluster 0 Cluster 1 Cluster 2 Cluster 3
point	Cluster 0 Cluster 1 Cluster 2 Cluster 3

Image 1



✓ Image 2



Image 3



Image 4



Image 5



✓ Image 6



✓ Image 7





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沈伟臣

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