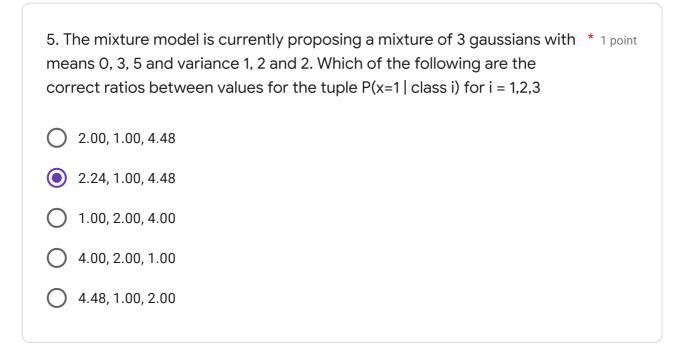
MODULE 8 QUIZ 4
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1. We have used gaussian mixture models to fit data which has real-valued * 1 point continuous features. Do you think we can also apply mixture models to discrete features, like integral values.
Yes, if we choose an appropriate Probability Mass function.No, only if the data is categorical
No, probability distributions only support real valuesYes, but we must generate a continuous interpolation of the input information.

2. Say we run a gaussian mixture model with 5 clusters. One test data * 1 point point is exactly equidistant from the means of all clusters. Which cluster does this point belong to?
It's with 20% probability in each of the clusters
It with highest probability in the cluster with the highest variance
It's with the highest probability in the cluster with the lowest variance
Nothing can be said about which cluster it belongs to
3. Which is an advantage of probabilistic soft clustering over hard * 1 point clustering methods like k-means?
It is better on dealing with outliers
The number of clusters in the data can be directly inferred from soft clustering, for k-means we have to guess it from the elbow of fit quality graph
Being a bayesian method is offers much better interpretability of why a particular point is in a given cluster as compared to k-means
O It is better at dealing with points which lie between 2 clusters
4. The process of training a mixture model can be thought of as an * 1 point optimization process, which involves maximizing over which of these parameters
P(cluster parameters cluster assignments)
P(cluster assignments cluster parameters)
O Both A and B
P(cluster assignments)
O P(cluster parameters)

23/06/2022, 19:17 MODULE 8 QUIZ 4



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