3. Introduction to Mixture Models

Exercises due Apr 19, 2023 08:59 -03 Completed

Gaussian Mixture Model: Definitions

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Gaussian Mixture Model: Definitions

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Assume a Gaussian mixture model with K Gaussians such that we know all the means that we also know the mixture weights $p_1, \ldots, p_K$. Let $\mathbf{x}$ be an observation obtained f mixture model. Let all of the parameters of the Gaussian mixture model be collectively

Which of the following are true? (Choose all that apply.)

- [x] We should be able to compute the probability density function (likelihood) $p(\mathbf{x}|\theta$ information that we know.
- [x] We should be able to compute the probability that $\mathbf{x}$ belongs to each Gaussian c $j = 1, \ldots, K$ given the information that we know.
- [x]

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Gaussian Mixture Model: Definitions

A **Gaussian Mixture Model (GMM)** , which is a generative model for data , is de
set of parameters:

1. : Number

2. A -dimensional Gaussian for every

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