Audit Access Expires May 11, 2020
You lose all access to this course, including your progress, on May 11, 2020.

4. Mixture Model - Observed Case
Estimating the Parameters in the Observed Case

0:00 / 0:00 1.25x

Video
Download video file

Transcripts
Download SubRip (.srt) file
Download Text (.txt) file

Observed Case: An Example Problem

4/4 points (graded)

Let $K = 2$ and let $[-1.2 \ -0.8]^T$, $[-1 \ -1.2]^T$, $[-0.8 \ -1]^T$ be three observed points in cluster 1 and $[1.2 \ 0.8]^T$, $[1 \ 1.2]^T$, $[0.8 \ 1]^T$ be three observed points in cluster 2.

What are the means of the two clusters?

$\mu_{1,1} =$

-1 ✔ **Answer:** -1

$\mu_{1,2} =$

-1 ✔ **Answer:** -1

$\mu_{2,1} =$

1 ✔ **Answer:** 1

$\mu_{2,2} =$

1 ✔ **Answer:** 1

Solution:

The means of the two clusters are computed as the average of the points in each cluster, which evaluate to $[-1 \ -1]^T$ and $[1 \ 1]^T$.

Submit You have used 2 of 2 attempts

Answers are displayed within the problem

Discussion

Add a Post | Hide Discussion

Topic: Unit 4 Unsupervised Learning (2 weeks) :Lecture 16. Mixture Models; EM algorithm / 4. Mixture Model - Observed Case

Show all posts by recent activity

? Taking the logarithm of a summation is... a summation of indicated logarithms? 1

P(Sn/theta) 2

© All Rights Reserved