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**Machine Learning with Python-From Linear Models to Deep Learning**[Course](#)[Progress](#)[Dates](#)[Discussion](#)[Resources](#)[Course](#) / [Unit 4. Unsupervised Learning \(2 w...](#) / [Lecture 16. Mixture Models; E](#)[< Previous](#)

## 4. Mixture Model - Observed Case

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

**Estimating the Parameters in the Observed Case****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?

 $\mu_{1,1} =$   $\mu_{1,2} =$

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