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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](#)

## 1. Mixture Models and the Expectation Maximization (EM) Algorithm

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- Review **Maximum Likelihood Estimation** (MLE) of mean and variance in Gaussian statistics
- Define **Mixture Models**
- Understand and derive ML estimates of mean and variance of Gaussians in an **Observed Data Model**
- Understand **Expectation Maximization (EM) algorithm** to estimate mean and variance in an **Unobserved Gaussian Mixture Model**

### Discussion

**Topic:** Unit 4. Unsupervised Learning (2 weeks) :Lecture 16. Mixture Models; EM algorithm / 1. Mixture Models and the Expectation Maximization (EM) Algorithm

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