

CSC 390

Topics in Artificial Intelligence

“Unsupervised Machine Learning”

Fall 2016
Prof. Sara Mathieson
Smith College

Outline: 11/17

- Presentation feedback
 - Recap HMM lab
 - Gaussian HMMs and Mixture of Gaussians
 - Another example of EM
 - Next week: start neural networks
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- Office Hours today: 4-5pm, Ford 355
 - Homework 6 (Project Proposal) due today!
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- Most people can be louder

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- Board work can be really helpful, but be aware of the time it takes
- Keep in mind we have a large class and need to get through everyone (no flexibility for the final presentations)
- Almost everyone's figures (and sometimes text) were too small (focus on one subfigure)

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- It's great to talk about the obstacles you've encountered in the analysis process and how you've overcome them

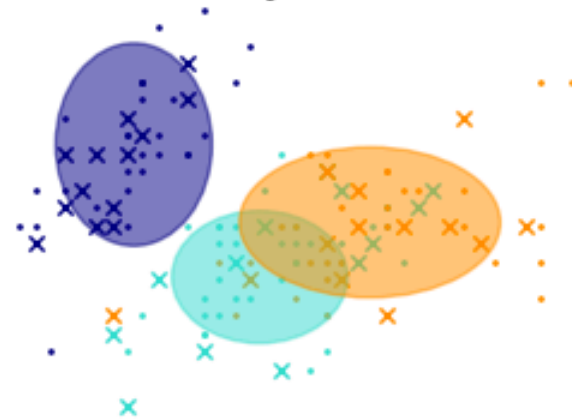
spherical

Train accuracy: 88.3
Test accuracy: 92.3



diag

Train accuracy: 93.7
Test accuracy: 89.7



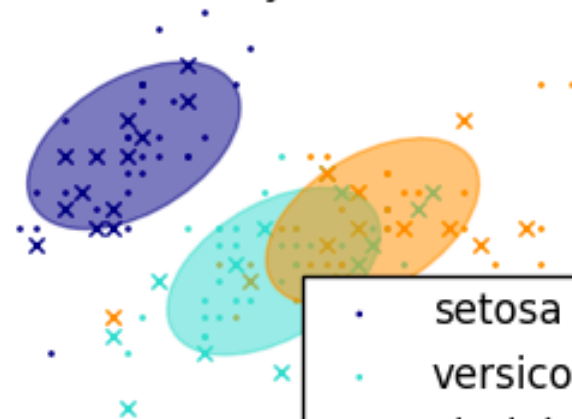
full

Train accuracy: 94.6
Test accuracy: 97.4



tied

Train accuracy: 95.5
Test accuracy: 100.0



• setosa
• versicolor
• virginica