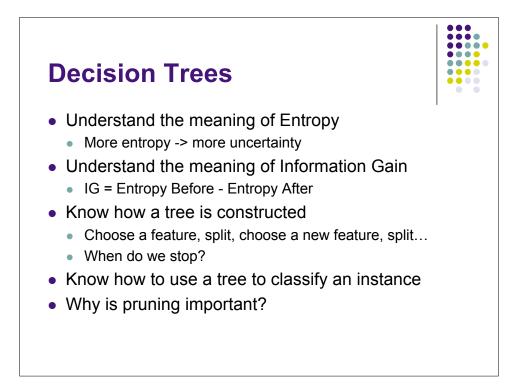
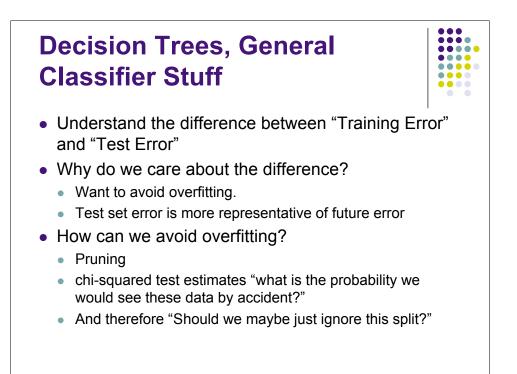


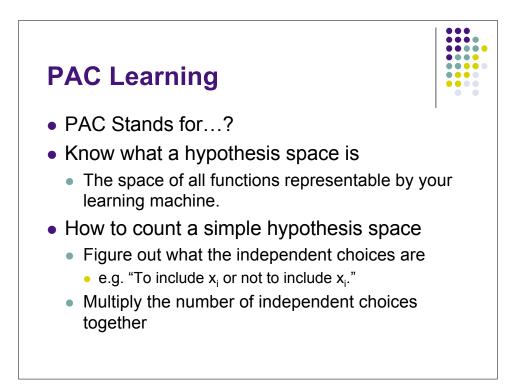
• What is classification?

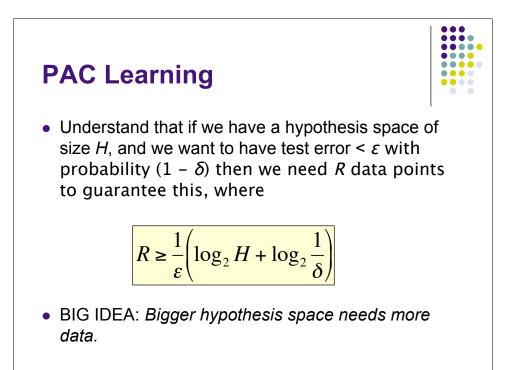
Introduction

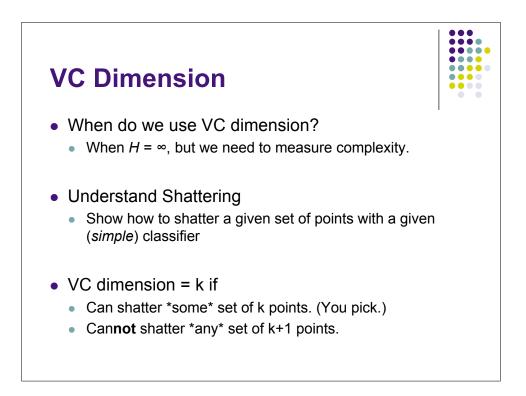
- What is regression?What is the difference?
- What do these have in common with Reinforcement learning?
 - They are all prediction problems.
- What is different?
 - RL is Evaluative learning
 - Classification and Regression are Instructive learning
 - "Supervised" Learning
- What is a "feature"?

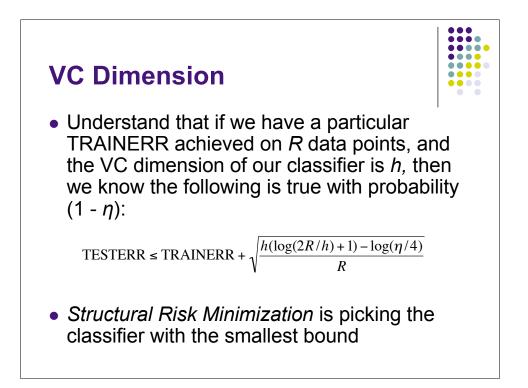


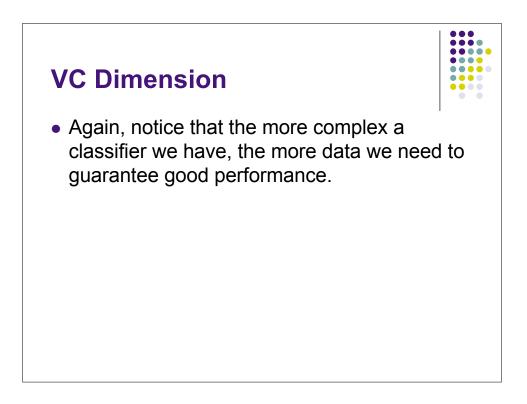


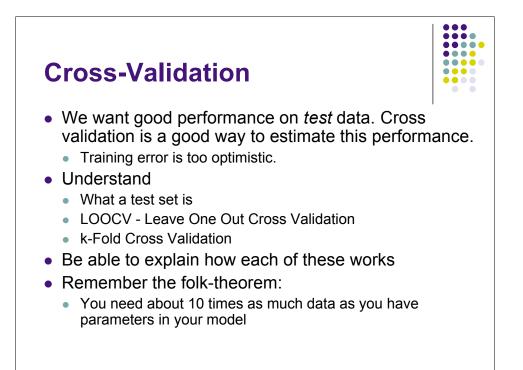


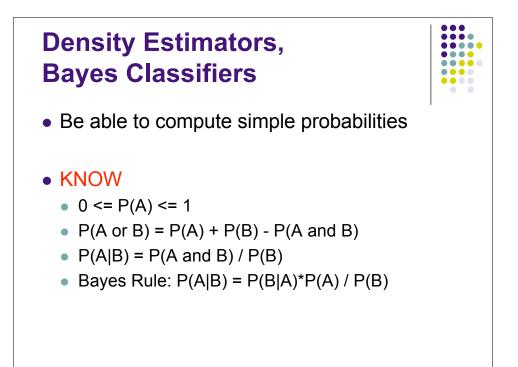












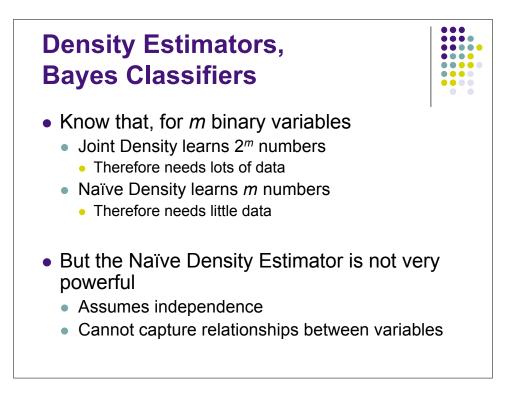
Density Estimators, Bayes Classifiers

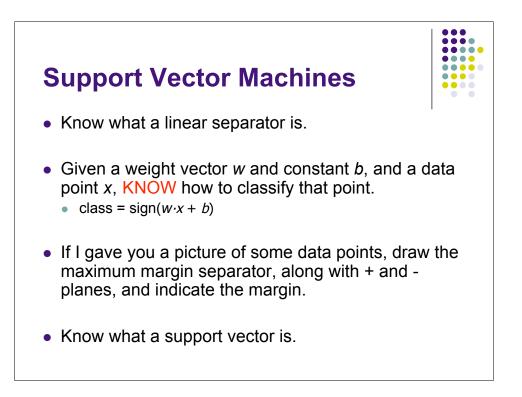


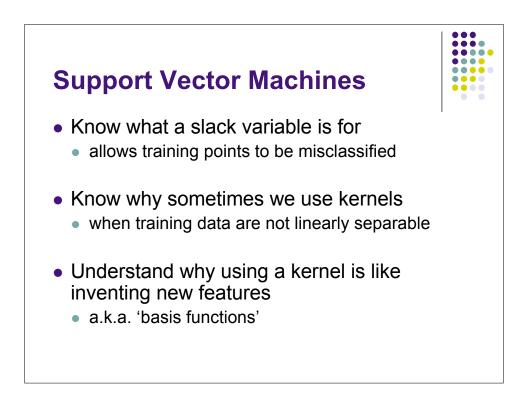
- Be able to produce, given a small amount of data
 - A Joint Density Estimator or Bayes Classifier
 - A Naïve Density Estimator or Bayes Classifier
- Be able to compute P(class = +) given
 - Joint Density estimates
 - Naïve Density estimates

KNOW

- For naïve: P(A and B | C) = P(A|C) * P(B|C)
- For joint: P(A and B | C) = look it up in your table











- Understand the Big Four:
 - Policy
 - Reward
 - Value
 - Transition Model
- Understand what TD learning is trying to do
 - Learn a good value function in order to learn a good policy
- Know the difference between Sarsa and Q-learning
 - Understand on-policy vs. off-policy learning