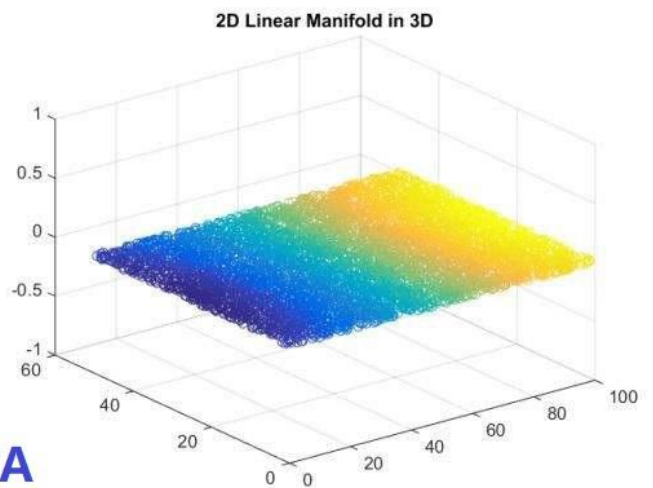
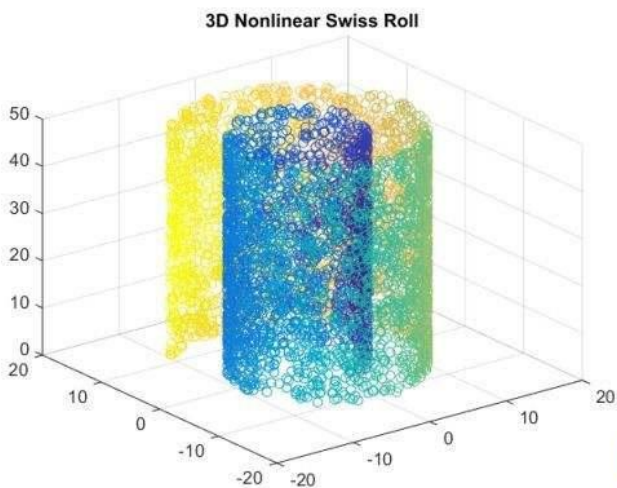
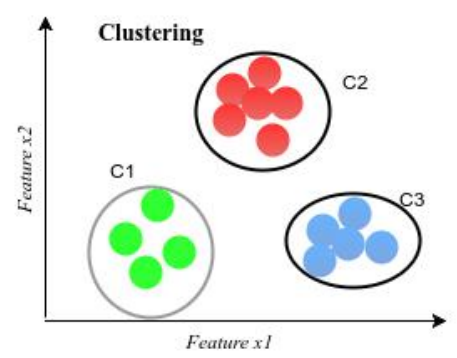
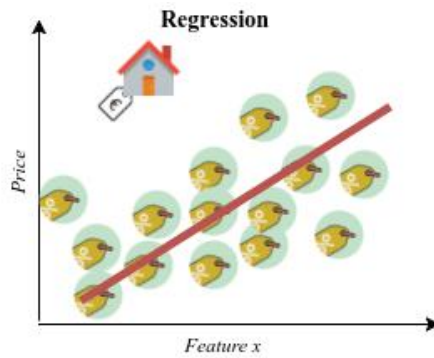
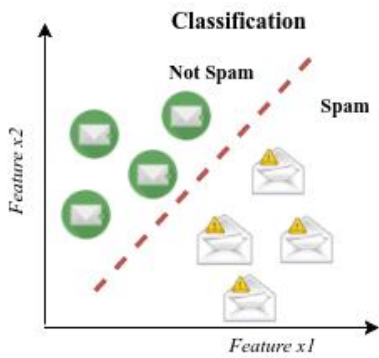
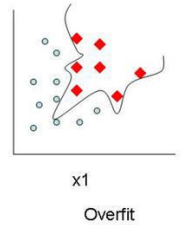
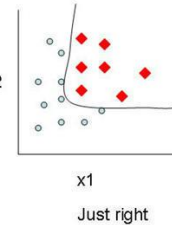
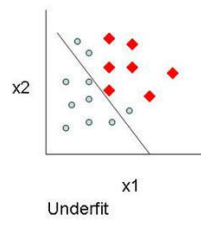
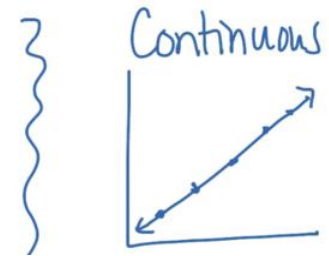
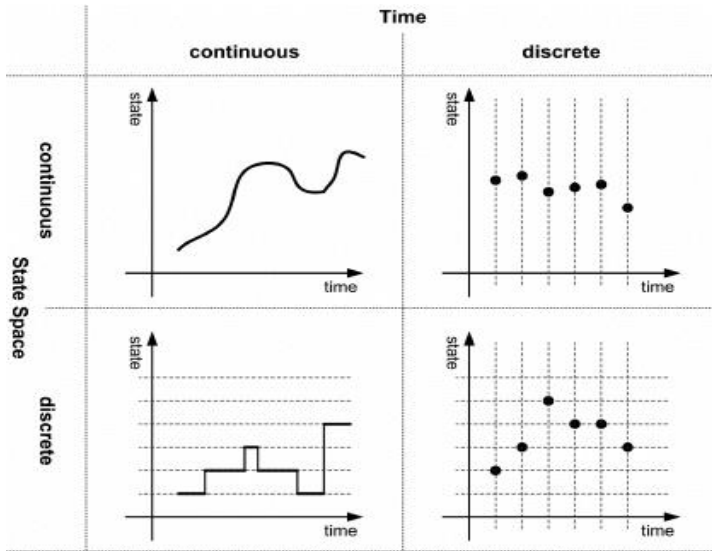
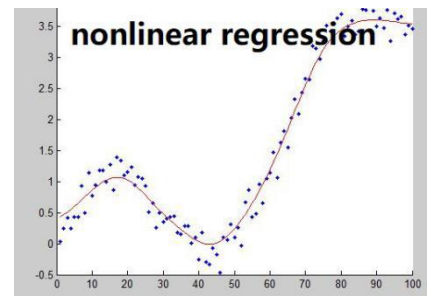
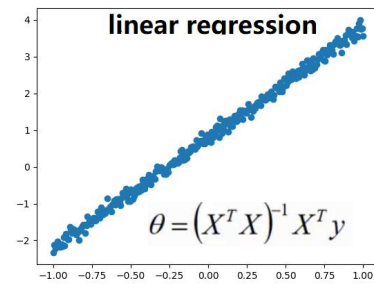
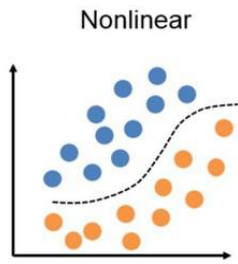
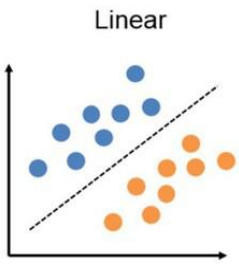
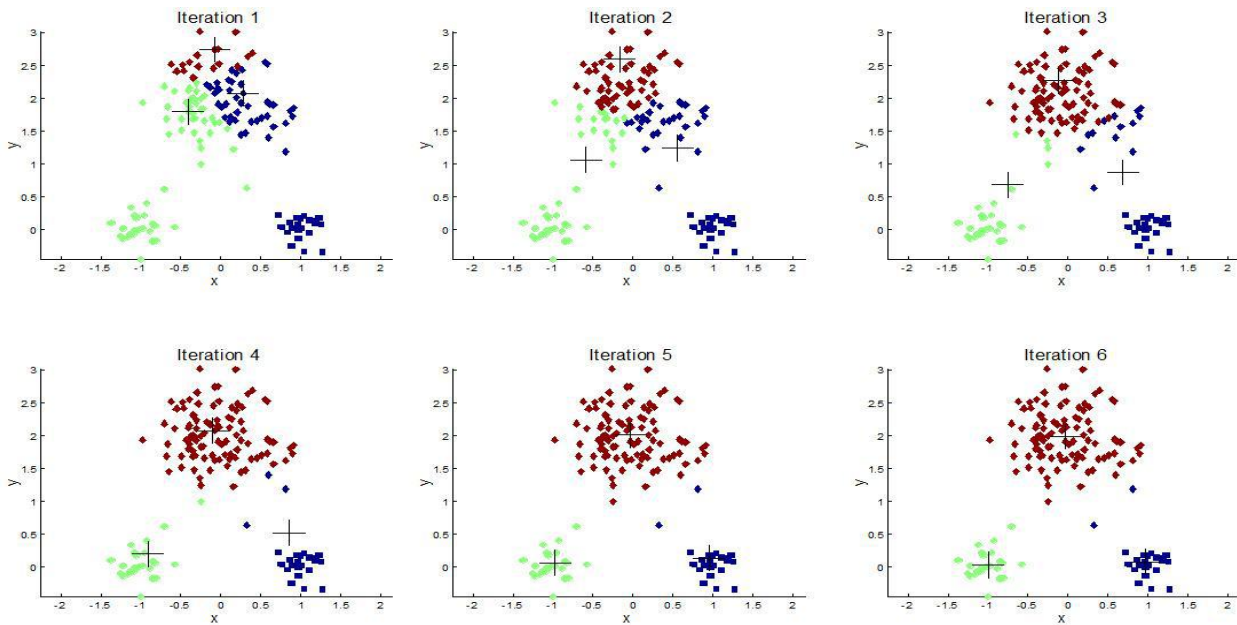
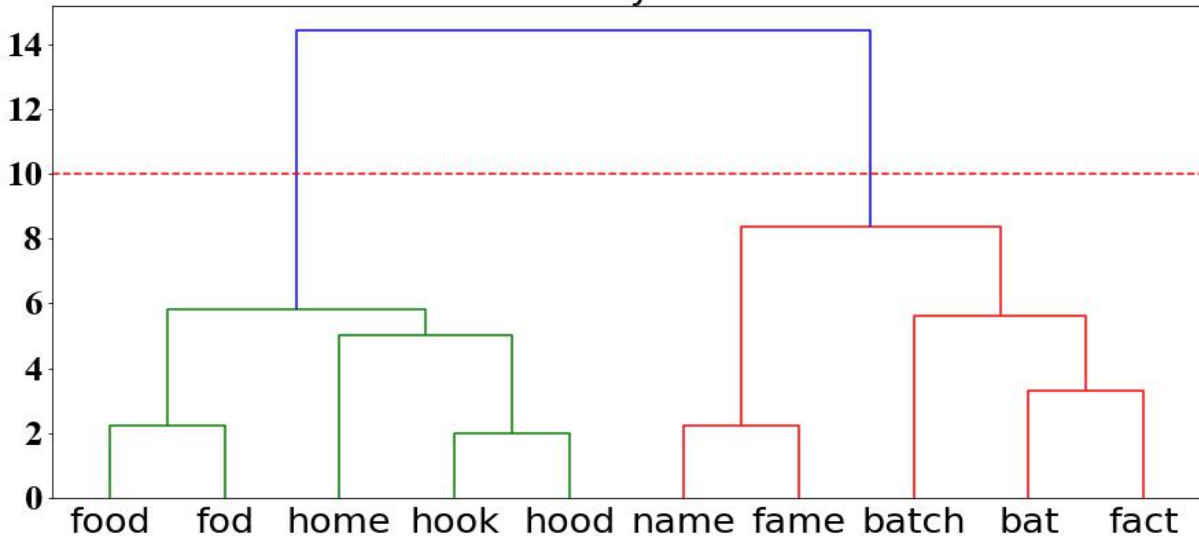


常见机器学习算法



PCA

hook hood food bat fact batch home name fame fod
 hierarchy cluster

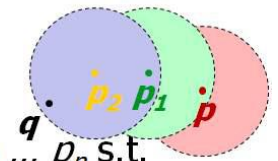


Reachability and Connectivity

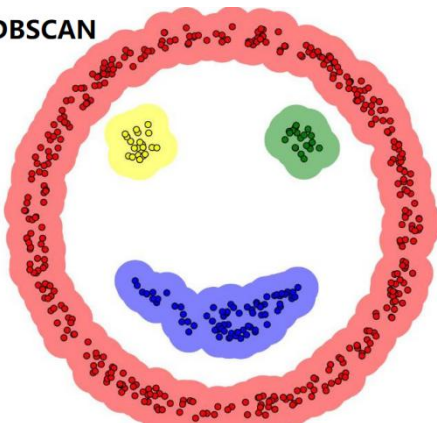
- density reachable (**dr**)

An object q is **dr** from p iff there exists a chain of objects $p_1 \dots p_n$ s.t.

- p_1 is ddr from p ,
- p_2 is ddr from p_1 ,
- p_3 is ddr from ... and q is ddr from p_n



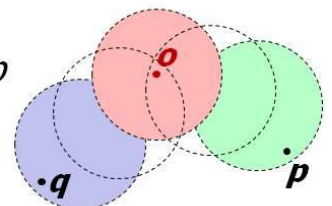
DBSCAN



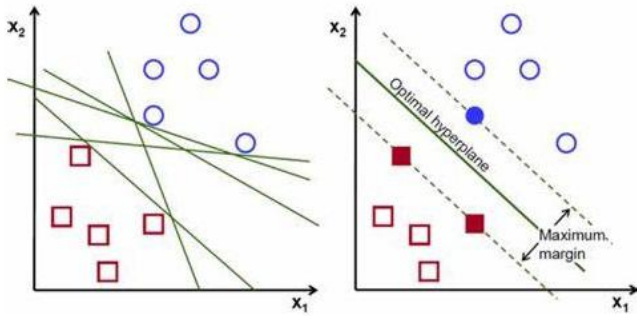
- density connected (**dc**)

p is **dc** to q iff

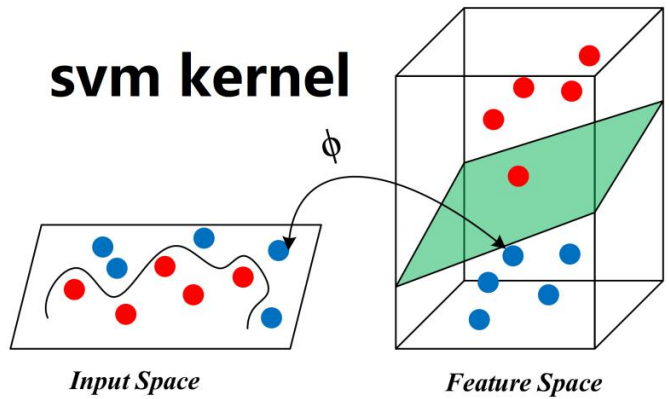
- exist an object o such that p is **dr** from o
- and q is **dr** from o



logistic regressions VS svm

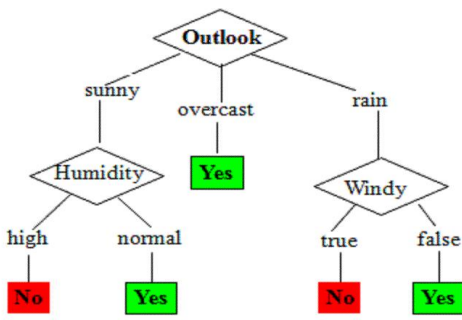


svm kernel



Play outside?

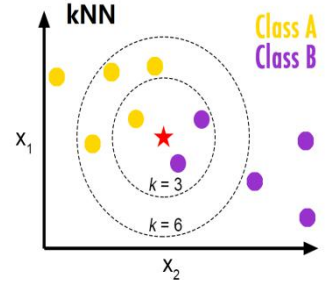
DecitionTrees



$$\Pr(\theta|y) = \frac{\Pr(y|\theta)\Pr(\theta)}{\Pr(y)}$$

Posterior Probability Likelihood of Observations Prior Probability

Normalizing Constant



	Predictors				Response	
	Outlook	Tempe	Humidity	Wind	Class	
					Play=Yes	
					Play=No	
1	Sunny	Hot	High	Weak	No	编号, 色泽, 根蒂, 敲声, 纹理, 脐部, 触感, 密度, 含糖率, 好瓜
2	Sunny	Hot	High	Strong	No	1, 青绿, 蜷缩, 浊响, 清晰, 凹陷, 硬滑, 0.697, 0.46, 是
3	Overcast	Hot	High	Weak	Yes	2, 乌黑, 蜷缩, 沉闷, 清晰, 凹陷, 硬滑, 0.774, 0.376, 是
4	Rain	Mild	High	Weak	Yes	3, 乌黑, 蜷缩, 浊响, 清晰, 凹陷, 硬滑, 0.634, 0.264, 是
5	Rain	Cool	Normal	Weak	Yes	4, 青绿, 蜷缩, 沉闷, 清晰, 凹陷, 硬滑, 0.608, 0.318, 是
6	Rain	Cool	Normal	Strong	No	5, 浅白, 蜷缩, 浊响, 清晰, 凹陷, 硬滑, 0.556, 0.215, 是
7	Overcast	Cool	Normal	Strong	Yes	6, 青绿, 稍蜷, 浊响, 清晰, 稍凹, 软粘, 0.403, 0.237, 是
8	Sunny	Mild	High	Weak	No	7, 乌黑, 稍蜷, 浊响, 稍糊, 稍凹, 软粘, 0.481, 0.149, 是
9	Sunny	Cool	Normal	Weak	Yes	8, 乌黑, 稍蜷, 浊响, 清晰, 稍凹, 硬滑, 0.437, 0.211, 是
10	Rain	Mild	Normal	Weak	Yes	9, 乌黑, 稍蜷, 沉闷, 稍糊, 稍凹, 硬滑, 0.666, 0.091, 否
11	Sunny	Mild	Normal	Strong	Yes	10, 青绿, 硬挺, 清脆, 清晰, 平坦, 软粘, 0.243, 0.267, 否
12	Overcast	Mild	High	Strong	Yes	11, 浅白, 硬挺, 清脆, 模糊, 平坦, 硬滑, 0.245, 0.057, 否
13	Overcast	Hot	Normal	Weak	Yes	12, 浅白, 蜷缩, 浊响, 模糊, 平坦, 软粘, 0.343, 0.099, 否
14	Rain	Mild	High	Strong	No	13, 青绿, 稍蜷, 浊响, 稍糊, 凹陷, 硬滑, 0.639, 0.161, 否
						14, 浅白, 稍蜷, 沉闷, 稍糊, 凹陷, 硬滑, 0.657, 0.198, 否
						15, 乌黑, 稍蜷, 浊响, 清晰, 稍凹, 软粘, 0.36, 0.37, 否
						16, 浅白, 蜷缩, 浊响, 模糊, 平坦, 硬滑, 0.593, 0.042, 否
						17, 青绿, 蜷缩, 沉闷, 稍糊, 稍凹, 硬滑, 0.719, 0.103, 否