Introduction to Machine Learning

Brown University CSCI 1950-F, Spring 2011 Prof. Erik Sudderth

Lecture 2: Classification

Machine Learning Problems

Supervised Learning	Unsupervised Learning
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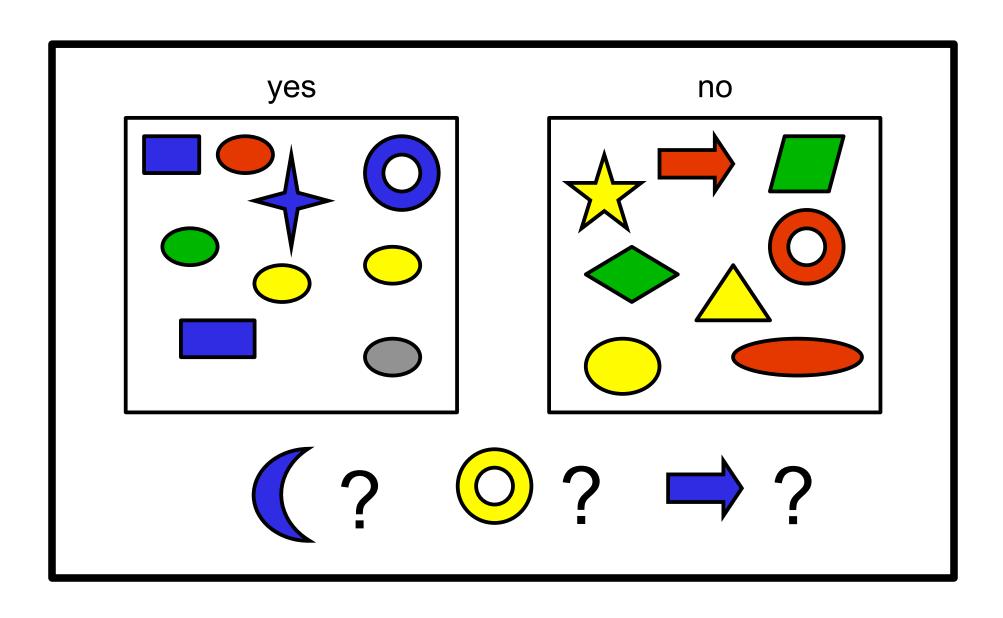
classification or categorization

regression

clustering

dimensionality reduction

Classification Problems



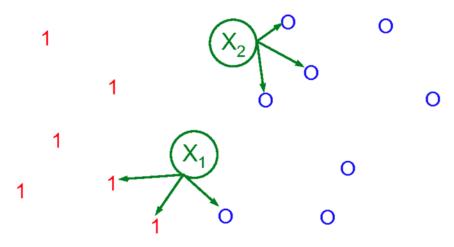
Classification Encoding

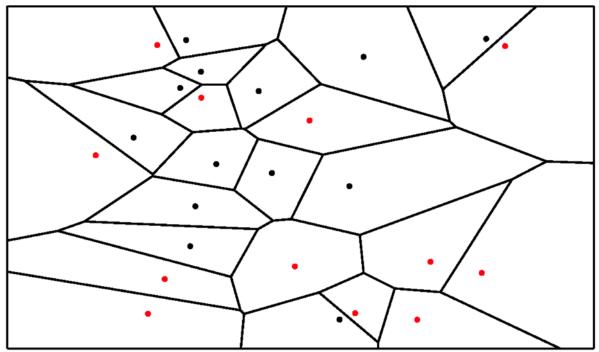
d features (attributes)

Color	Shape	Size (cm)
Blue	Square	10
Red	Ellipse	2.4
Red	Ellipse	20.7

Binary Label	
1	
1	
0	

1-Nearest Neighbor





Curse of Dimensionality

