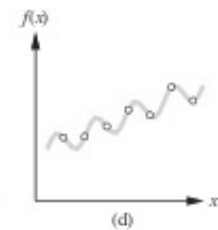# CS 4100/5100: Foundations of AI
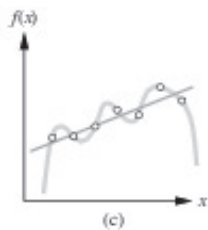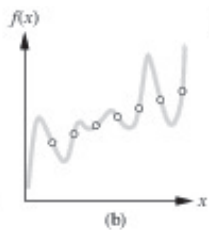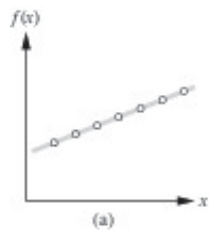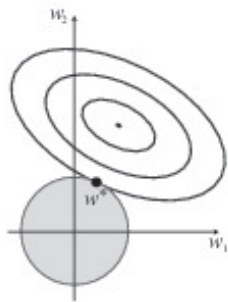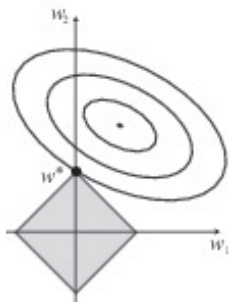## ML

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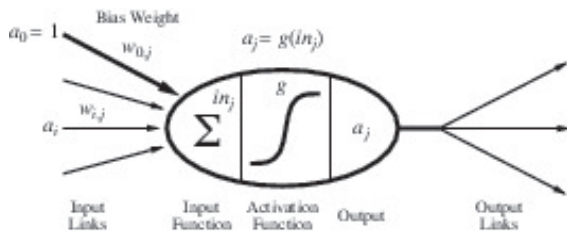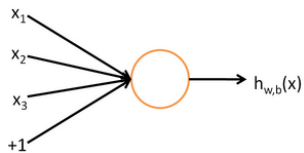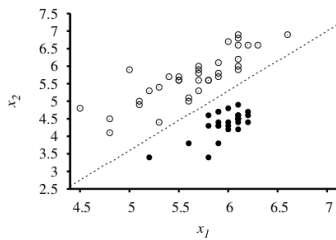September 5, 2013

Overfitting?
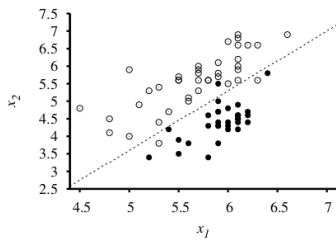
Regularization

Neuron

Neuron
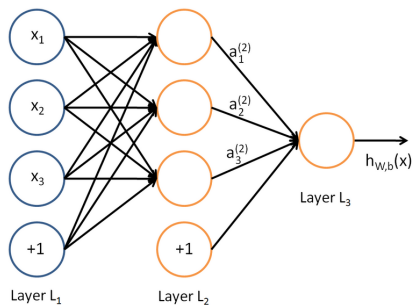
Logistic Regression
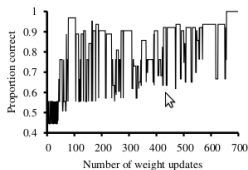

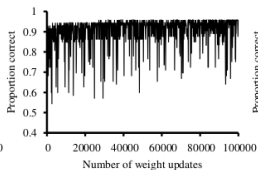(a)   (b)
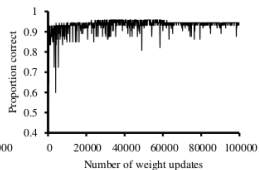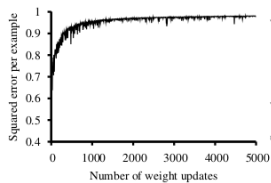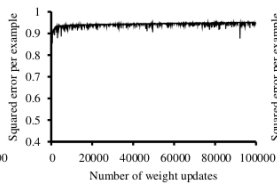
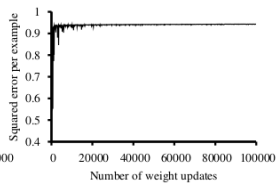# Logistic Regression

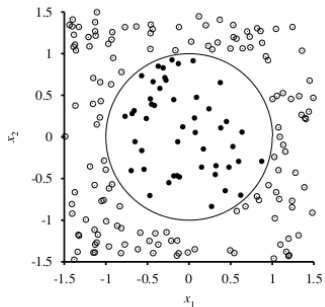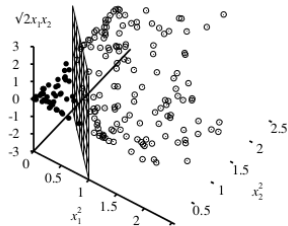(a)   (b)   (c)

Logistic Regression

(a)   (b)   (c)

Support Vector Machine (kernel)
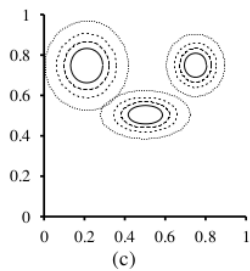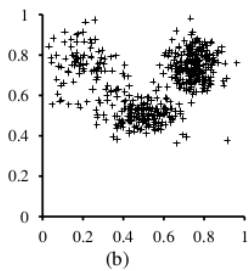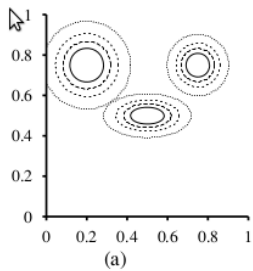
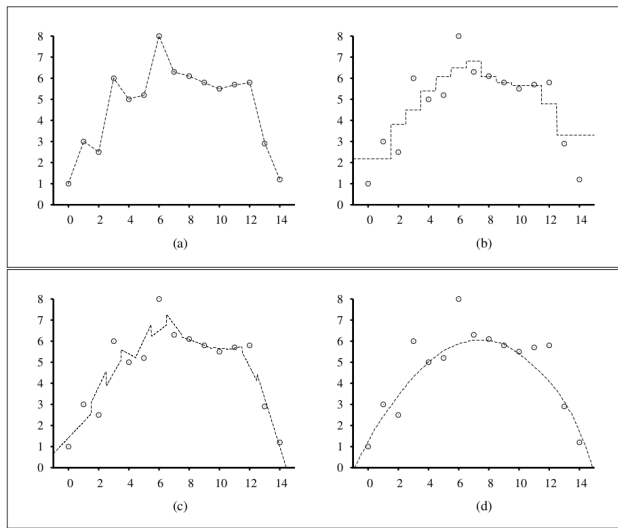

(a)

(b)

Clustering

(a) (b) (c)

Nearest Neighbor for Regression

PCA

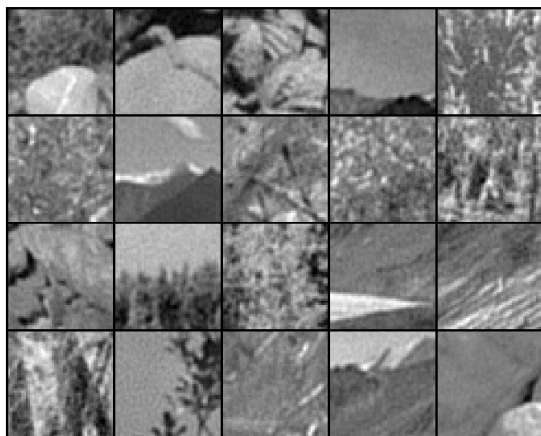raw images

PCA

compressed images: 638 out of 2304 dimensions