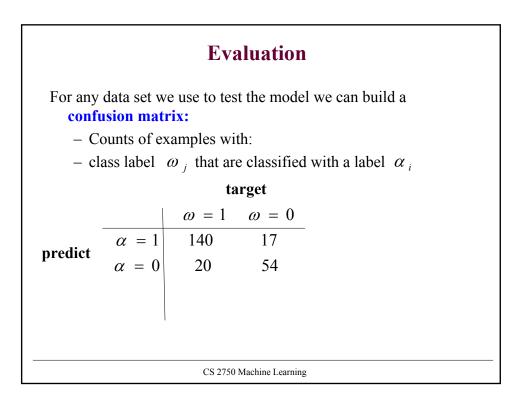
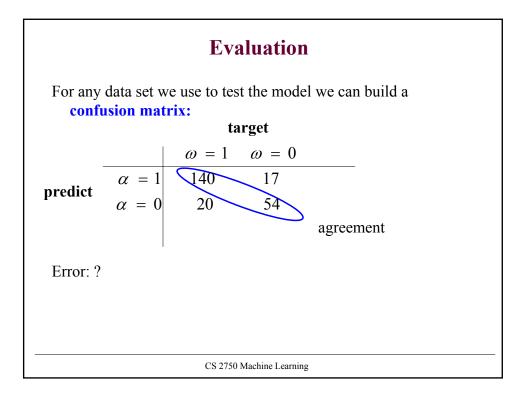
## CS 2750 Machine Learning Lecture 12

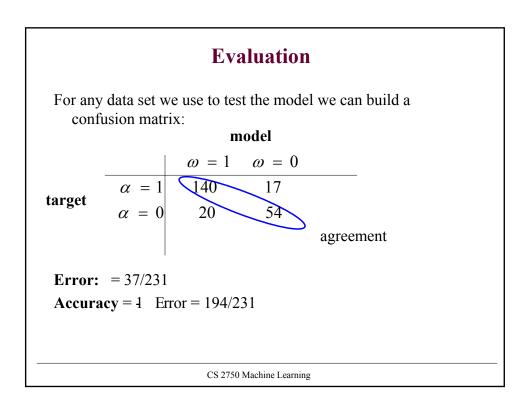
## Evaluation of classifiers MLPs

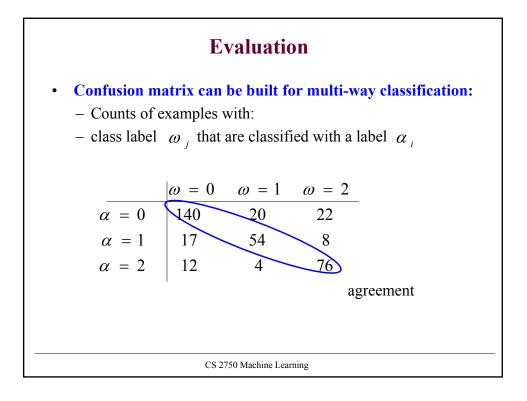
Milos Hauskrecht <u>milos@cs.pitt.edu</u> 5329 Sennott Square

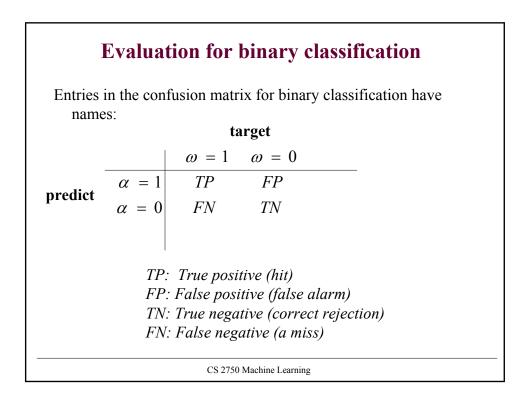
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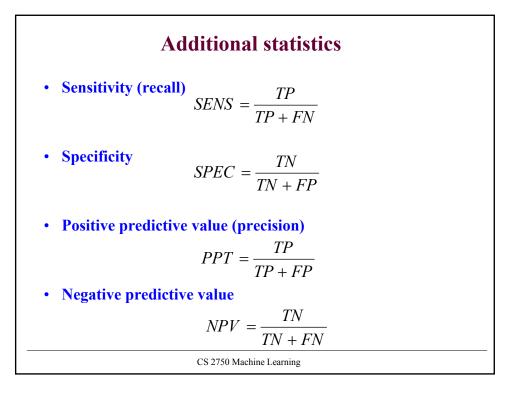


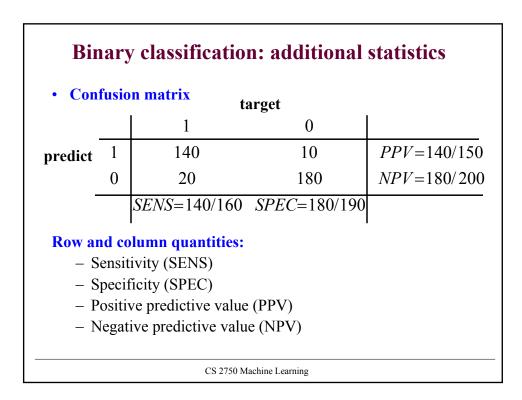


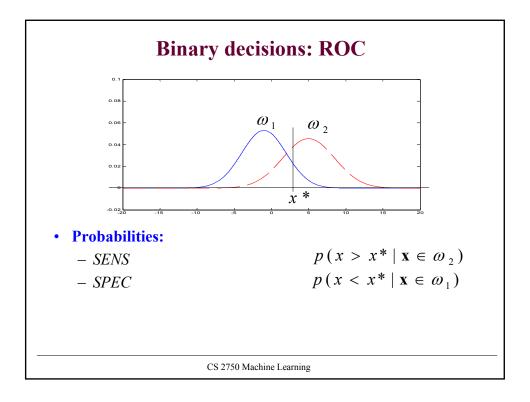


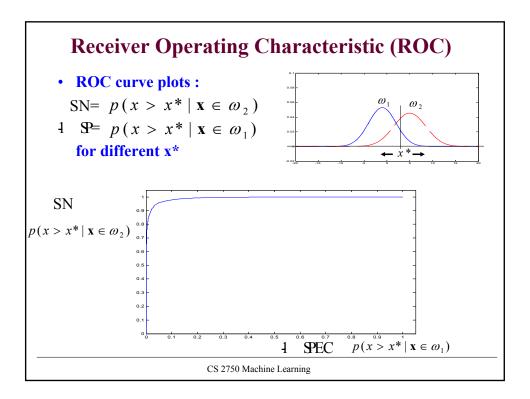


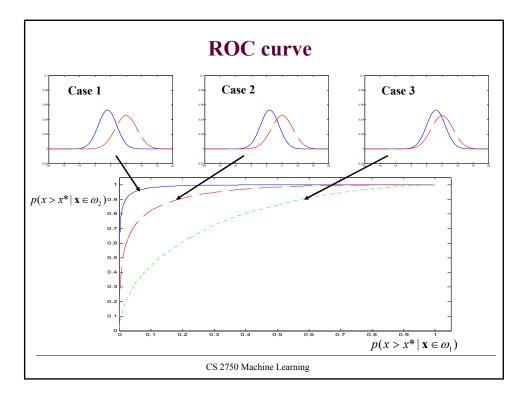


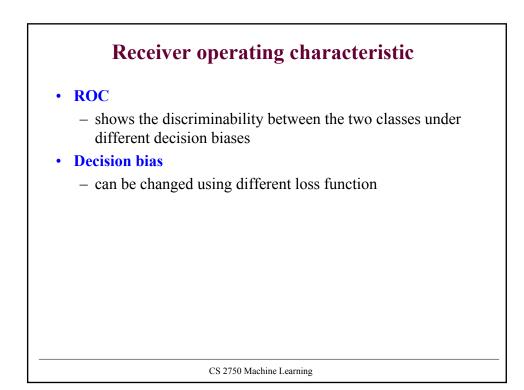


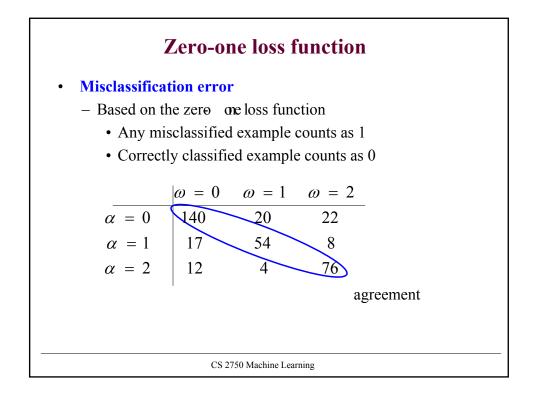


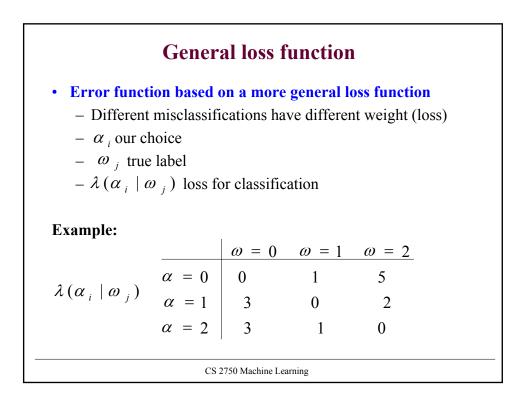


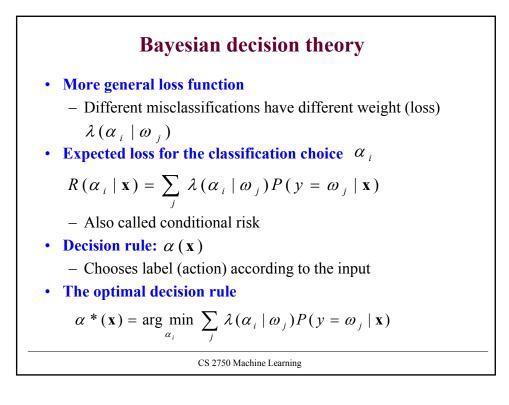


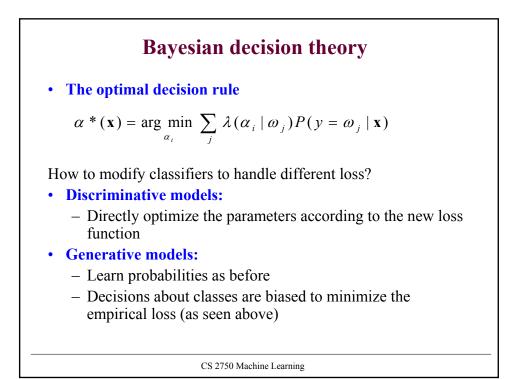


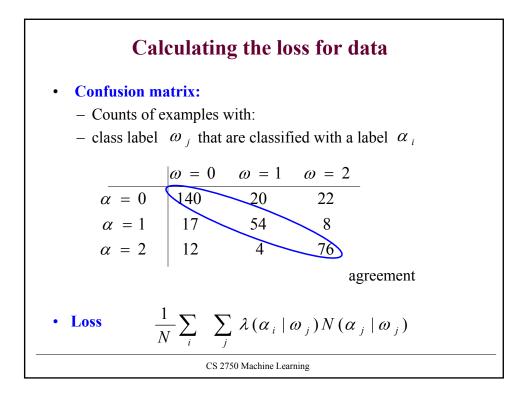


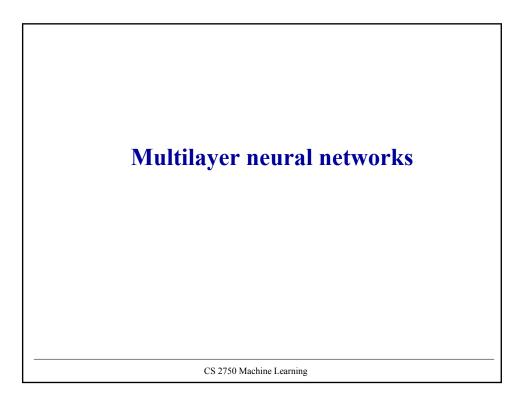


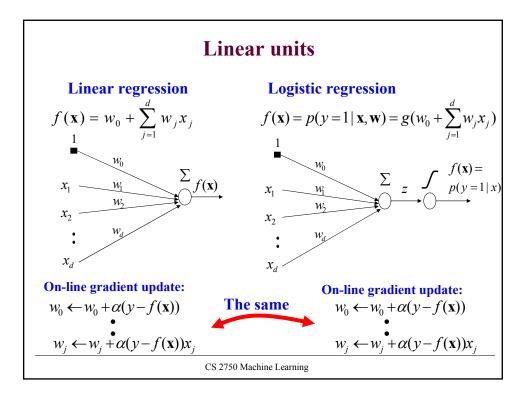


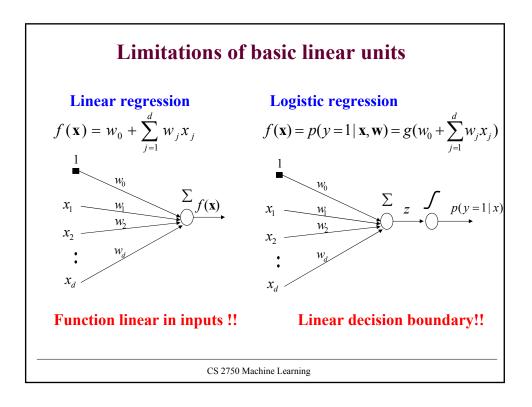


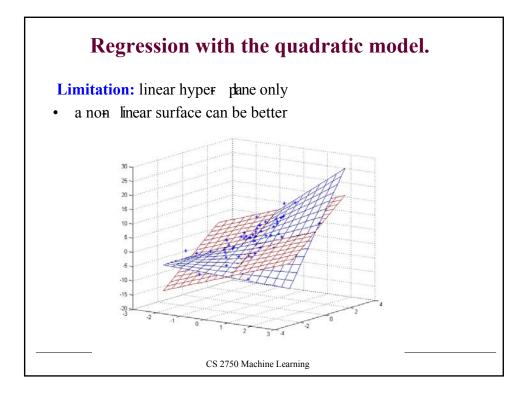


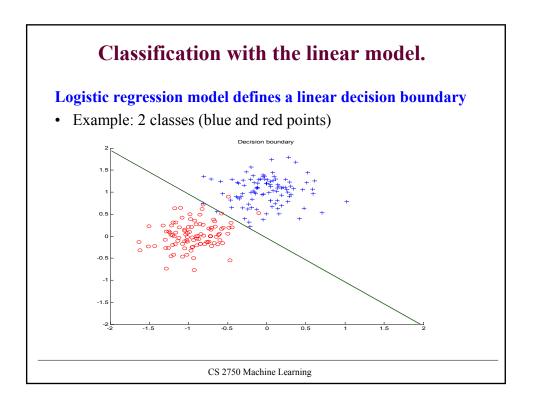


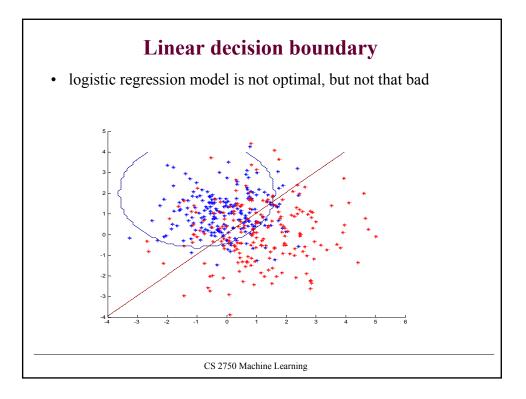


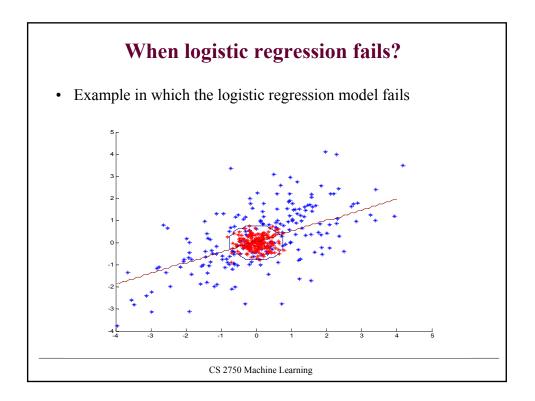


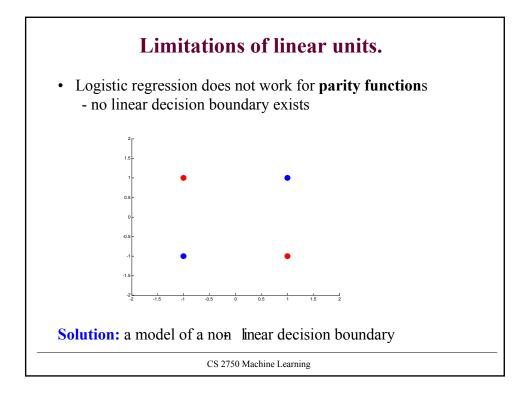


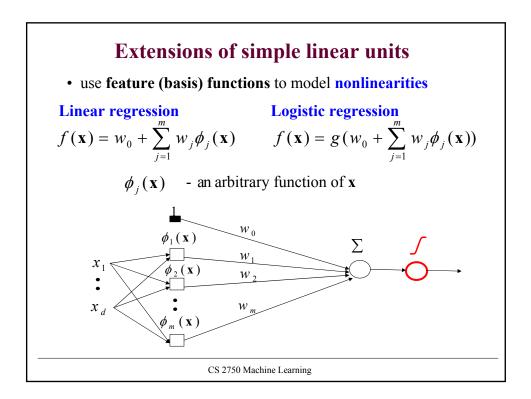






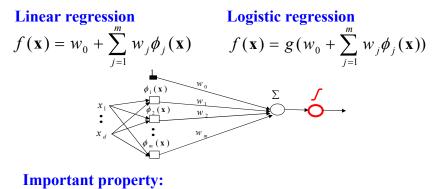






## Learning with extended linear units

Feature (basis) functions model nonlinearities



• The same problem as learning of the weights for linear units, the input has changed– but the weights are linear in the new input **Problem:** too many weights to learn

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