TAM 598 Lecture 25:

Neural Networks, cont'd

Announcements:

- HW 7 covers lectures 24-26; due on Fri May 16th

Classification using Neural Networks

features $x_{i:n}$, discrete targets $y_{i:n}$, N.N. $f(x;\theta)$

train network by maximizing log likelihood, ie minimizing the cross entropy loss y = 0,1,..., K-1 K values II) Multiclass Classification

II) Regularization

Since NN's are highly flexible => prone to overlitting

II) Bayesian interpretation of regularization -