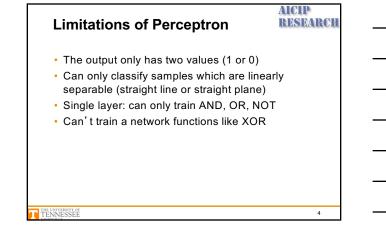
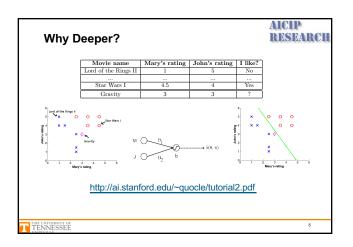
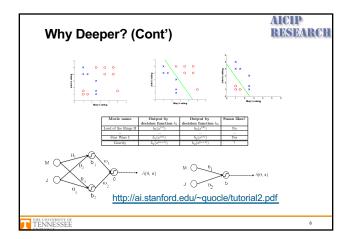


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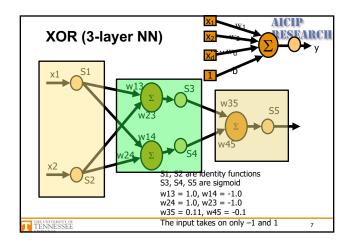




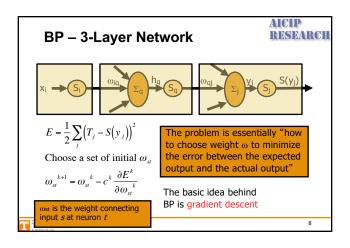


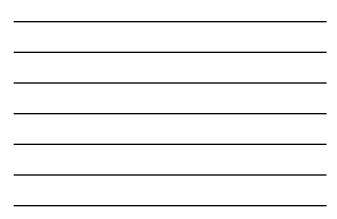


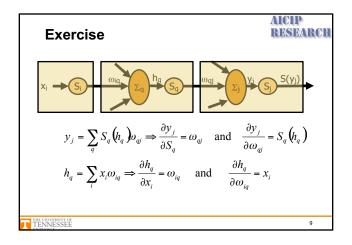




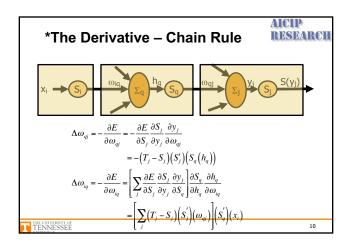




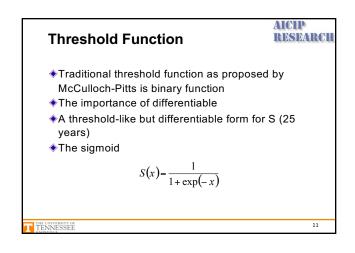


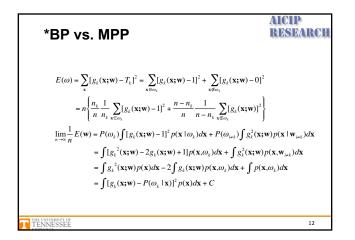






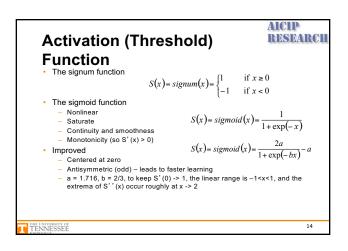


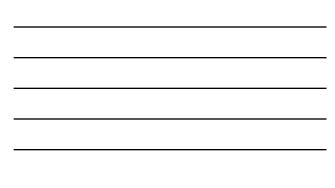


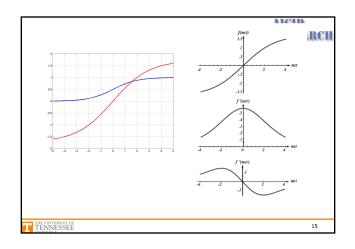


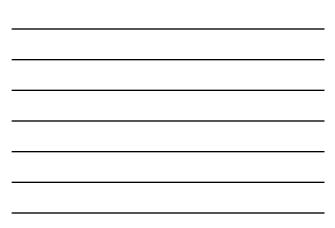


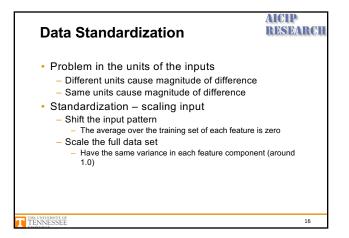


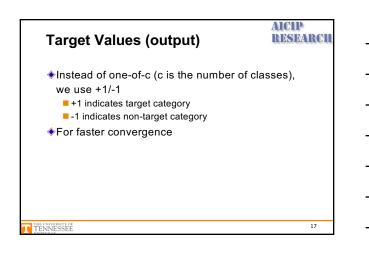


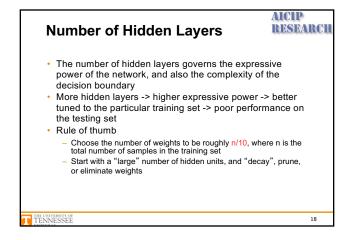


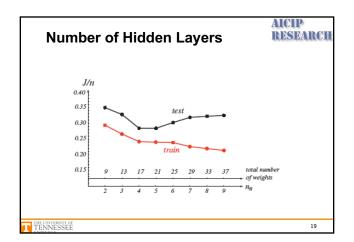




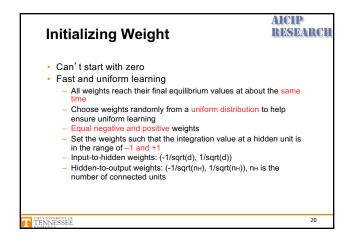


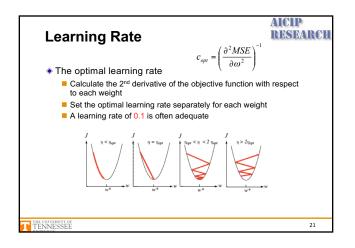














Plateaus or Flat Surface in S'
Plateaus
Plateaus
Regions where the derivative
$$\frac{\partial E}{\partial \omega}$$
 is very small
When the sigmoid function saturates
Momentum
Allows the network to learn more quickly when
plateaus in the error surface exist
 $\omega_{st}^{k+1} = \omega_{st}^{k} - c^{k} \frac{\partial E^{k}}{\partial \omega_{st}^{k}}$
 $\omega_{st}^{k+1} = \omega_{st}^{k} + (1 - c^{k})\Delta\omega_{bp}^{k} + c^{k}(\omega_{st}^{k} - \omega_{st}^{k-1})$

