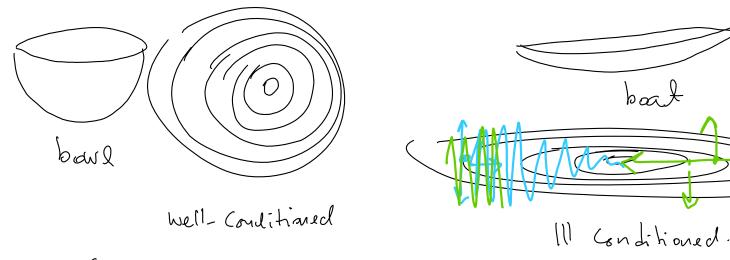
## Lecture 10/10: Deep Neural Networks

Thursday, October 10, 2019 2:48 PM



$$\eta_{t} = \frac{C}{t}$$

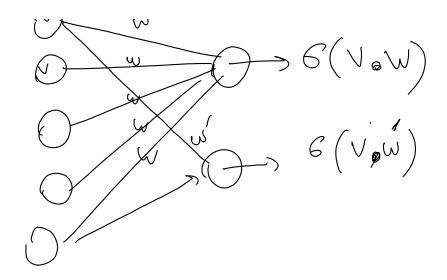
Merival Network

$$(\vec{x}.\vec{w}+b)$$
 or

 $(\vec{x}.\vec{w}+b)$  +  $(\vec{x}.\vec{w}+b)$  +  $(\vec{x}.\vec{w}+b')$ 
 $(\vec{x}.\vec{w}+b')$  =  $\vec{x}.(\vec{v}.\vec{w}+\vec{v}.\vec{w})$  +  $(\vec{v}.\vec{b}+\vec{v}.\vec{b}')$ 

Non-linearity

Symoid Sign E (Xow th) Activation' gra= 0 Sign V - allows to optimize.



XGR example

