Busic principles review pert 2

X

Pelu 

Two (x) = max (0, wx+b) Relu fin: 2 - b Initialization: - Current fulle wisclam: us use what worked on a iclated problem pretrained netwerk as an initialized 12) foundom initializations using gaussians

how to set vouvience?

For in of unit

\*\*Exercise initialization = N(0,?) ?= \frac{1}{a} \text{ Extraction vertical}

to for flelu: He initialization ? = 2 our assumption is

because of comy-dist many

Could a sold a sold as our assumption is

half of flelo outputs

here a venione, so

we double to got 1 for out vuls => sots man/ to 0 => not

legalorization - focus on least squares linear segression

 $C_{ost} = ||\vec{\gamma} - \vec{X}\vec{\omega}||^2 + \Delta ||\vec{\omega}||^2 \qquad \vec{\omega}^{*} = (\vec{X}\vec{X} + \Delta \vec{x})^{T} \vec{X}^{T} \vec{y}$ 

Puta Augmentation

[X] = [Y]

OVS => gets some as above

#Shown in hw.

## Feature Augmentation

$$\begin{bmatrix} x & 7xI \end{bmatrix} \begin{bmatrix} \vec{x} \\ \vec{t} \end{bmatrix} = \begin{bmatrix} \vec{x} \end{bmatrix}$$

OVS: Min norm Solution w/ moore-permose possello inverse