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	Pytorch_	face 500	K/mete		

LOSS X ZENO) W Backpropogation

Stop share

Back-Prop

Chain Rule

Ind veniusle

oc; E IR

Y; EIR = 100

case 2 :- Change the west

10 x 2 + 20 x1 + 30 x2 = 100 = 3;

LOSS = 4: -3; = 100-100 = 0

f = linear Rem

f(60) = 60 ~

Error

PRAMOD K. +1 other raised hands View

I Epoch = 1 Backprop + 1 Forward prop b) is nothing but iteration. This is just a fency word

100 epochs = 100 Back Prop + 100 Forward prop

epour = 100 epour = 10 Loss = Zeso (95) Stop

O Cons

0,0

Backprop

$$D = \{x_i, y_i\}$$

Pule 2 :- For each oc;

-> Forward proposation

- compute loss value Loss (y; , y;)
- Compute all the derivatives using chain rule que diff- Fuert continue moi zation

(d) update weight for end of the network to the start.

Known as Backproposation Alsonimon proposition

: Gradient Descent Her learning refe parameter New werst weight

(Weight) 11 = 50 -2 20 - 1 × 2 = 98 W = 50 - 1 × -2 = 52 ~ Rule 3 :- Repeat Step 2 Hill Convergence

PRAMOD K. +1 other raised hands View

30101550 5 hew = 49,599 pg, 50.000000) = 49,99,998

New Burist 1s very Similar to the old weith

0/d × ~2

Wijner ~ (mij) old = coencestence

55185ml 2000

Pred = 60

LOTS = (40)

(2) Preen = 190 = - 40

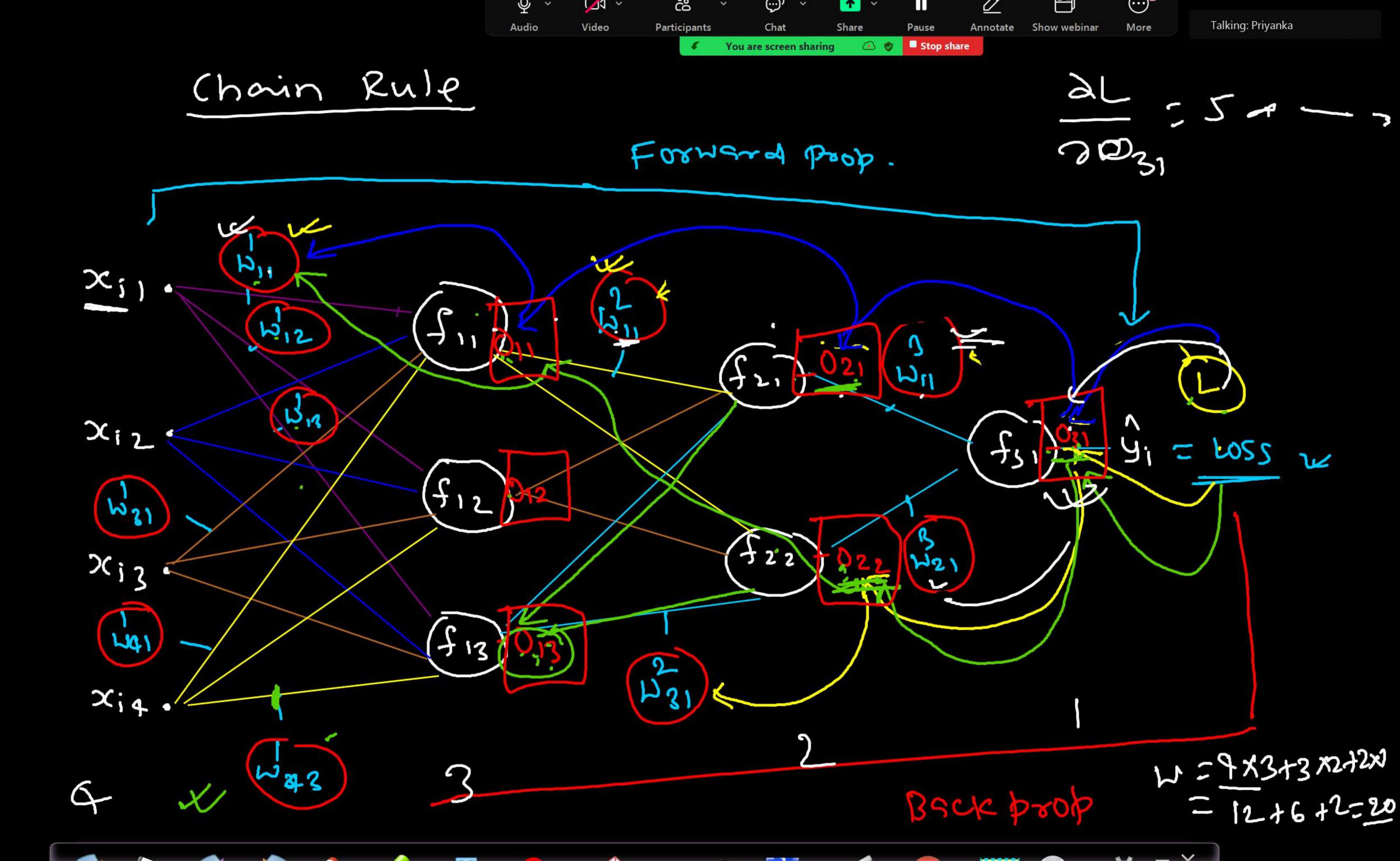
Pro : 80 - 20 (3)

200 = 100

Pred = 100 = 2870.

based = 100.00) = 0.00002 Fg consessor

Pred = 100.00009 = 0.0000)



$$\frac{\partial y}{\partial x} = \frac{\partial y}{\partial x} \cdot \frac{\partial x}{\partial x} \cdot \frac{\partial y}{\partial x}$$

9031

$$\frac{\partial L}{\partial \omega_{11}} = \frac{\partial L}{\partial \omega_{31}} * \frac{\partial \omega_{31}}{\partial \omega_{21}} * \frac{\partial \omega_{21}}{\partial \omega_{11}}$$

$$\frac{\partial L}{\partial \omega_{31}} = \frac{\partial L}{\partial \omega_{31}} * \frac{\partial \omega_{21}}{\partial \omega_{22}} * \frac{\partial \omega_{22}}{\partial \omega_{23}} * \frac{\partial \omega_{22}}{\partial \omega_{23}}$$

Stop share

$$\frac{\partial L}{\partial \omega_{11}} = \frac{\partial L}{\partial 0_{31}} \times \frac{\partial 0_{21}}{\partial 0_{21}} \times \frac{\partial 0_{21}}{\partial 0_{11}} \times \frac{\partial 0_{11}}{\partial \omega_{11}} + \frac{\partial L}{\partial \omega_{11}} \times \frac{\partial 0_{21}}{\partial 0_{22}} \times \frac{\partial 0_{22}}{\partial \omega_{11}} \times \frac{\partial 0_{21}}{\partial \omega_{11}} \times \frac{\partial \omega_{11}}{\partial \omega_{11}} \times \frac{\omega_{11}}{\partial \omega_{11}} \times \frac{\partial \omega_{11}}{\partial \omega_{11}} \times \frac{\partial \omega_{11}}{\partial \omega_{11}}$$

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$$\frac{\partial L}{\partial L} = \frac{\partial L}{\partial L} + \frac{\partial L}{\partial L} +$$

Define Loss Function

$$2 = \sum_{i=1}^{n} (y_i - \hat{y_i})^2 + \text{refulenizeffin}$$

SO-Loss Function

SGD. optimization - Gradient Descent BGD

Training on MLP: MemojZafin

Please note, it is not memoritation. it is called

3031 3031 3031 3031 "Memoizetsn"

Computer Science - Algenstum

Dynamic

Compute on Ee of Yense 17

core idea of memoization it this! if there is any operation that is used many zives repeateding it is a sood idea to compute it once of then Store it -> reuse purpose SThis concept is known as Memoizetin Benefit -> Speed->p

Deficit o Skirtly mere memory regum.

Ravinder +3 others raised hands

Linear Rep mes classific - Binan 5<8~~05 d nuly

Santoshkumar Pandit +4 others raised hands

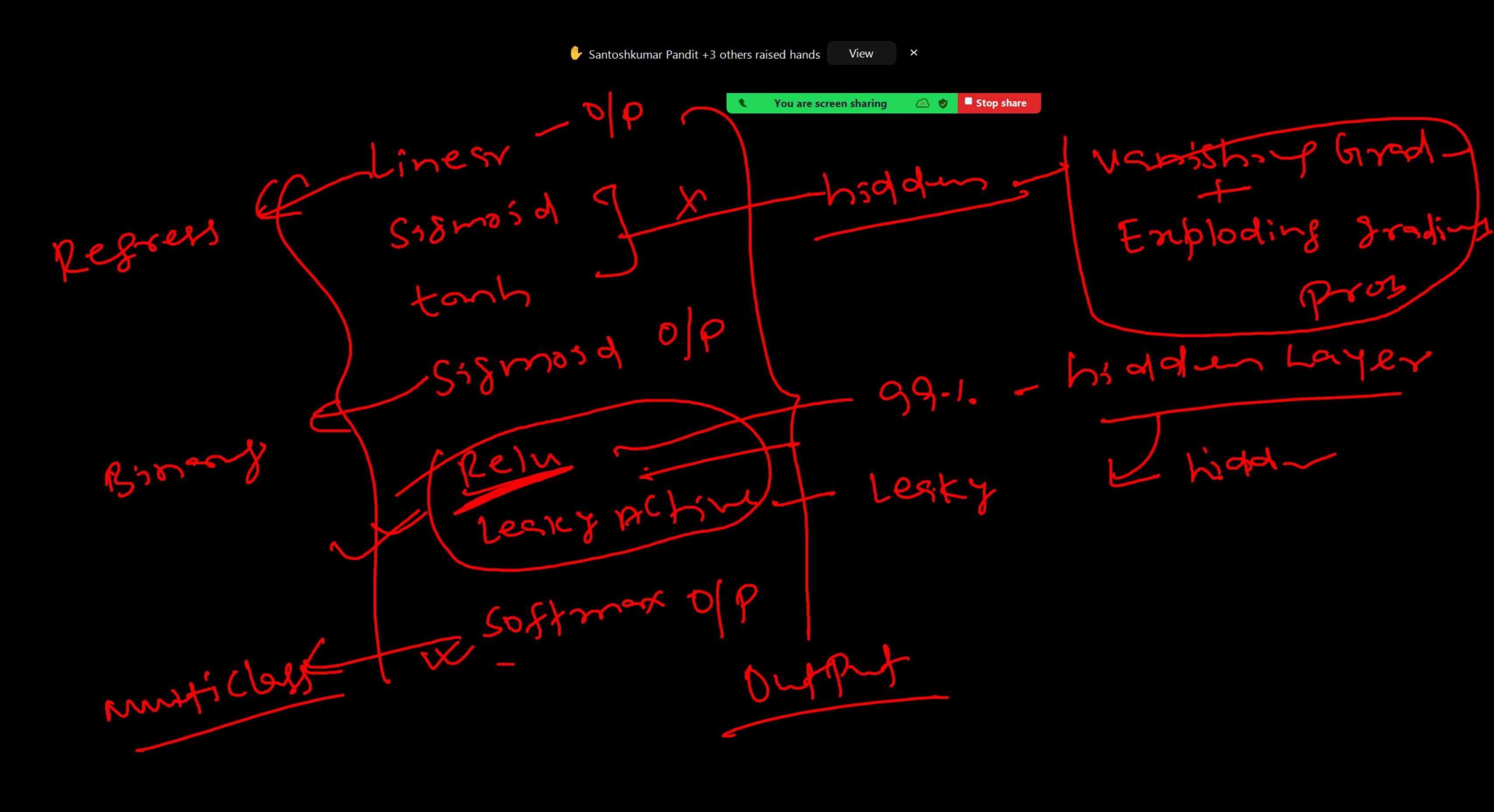
=) y(ex+1) = ex

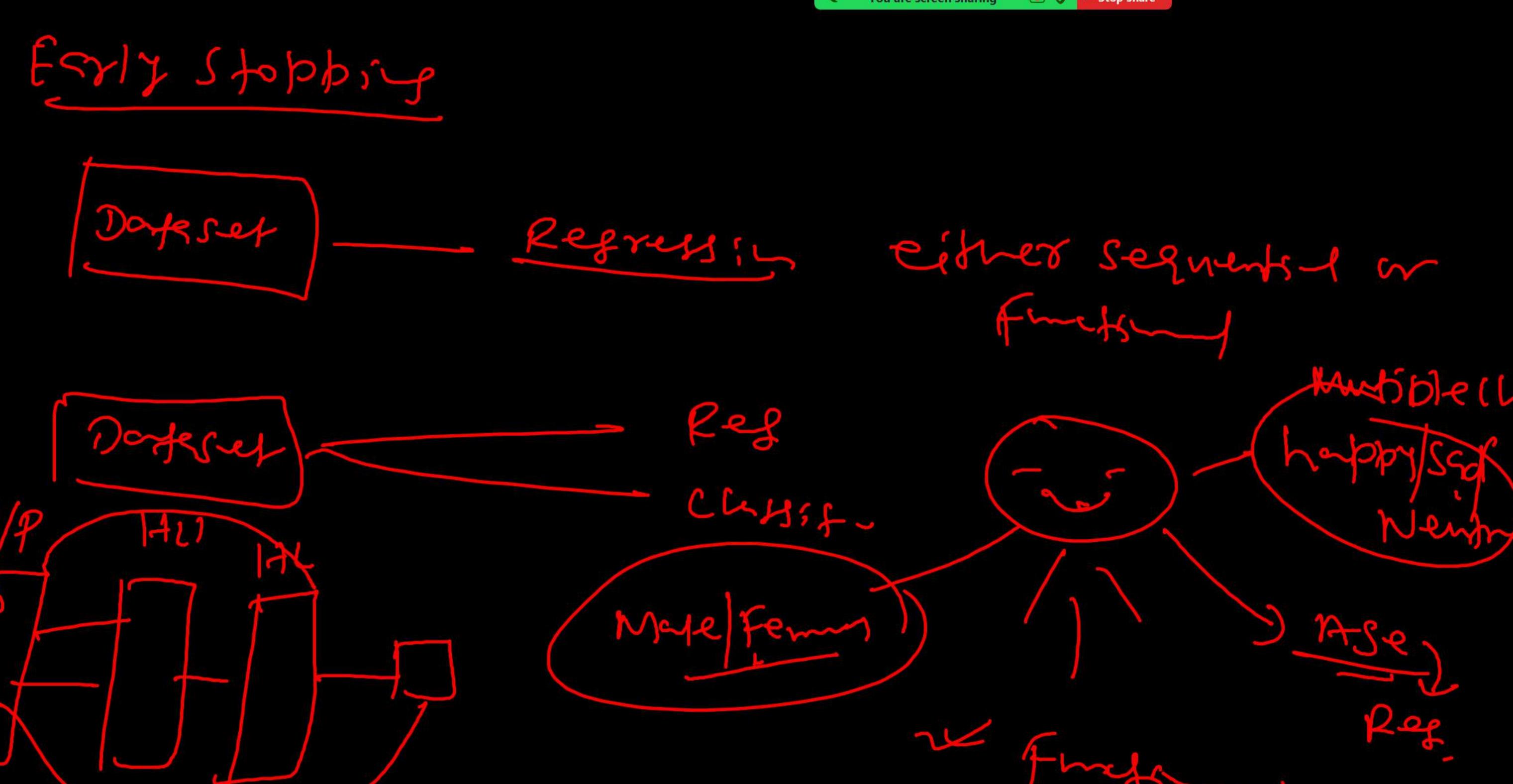
Santoshkumar Pandit +3 others raised hands

Rely

S\$ mod (5) = 6.01 mox (01x) = mox (012) = 2

558 m (5000)





Weist (a)culoss
You are screen sharing Talking Johnson - Batch Normalization Dropont Negy Neek のやがからそのか Whospespen fun. Tensorflow + reserg pyforch terch 1 problem - Image Afrocers