```
25 September 2023
                        07:07
                                     Laput Hiaden output
       pwba
      RELU
              Rech heef
                                  Yax (2,0) = 2
                                  Yax (4,0) = 4
                                 yor (-2,0) = 0
                                 Your (-4,0) = 0
      Aput -00 10 00
     output yor (4,0)
     becivation are out
     Relu is the perfect tit tog
    the hidden Loyeu.
     Dying Relu problem.
          Once a neuron is read
                it is prever bead
              When = wold - & 'DL
     2001 3031 3031 3021 3011 3011
            = 0.8 ×0×0.4 ×0.3
          when = wold- & ac
                           wold.
          wnew = wold /
                                 [0]+[w]t[n7
      Dying Relu. Newson specific problem.
    vouvishing graduent boyen specific 18061eg.
     When you of the neuron
    Return output 0. gradients
    fail to How back douing
    back mopagation with yardy
   horege port of Newsay Network
   Become inactives.
       D High regative bias.
      Leaky Relu.
                                    Max (2,0.1x)
                                   Mor (4,0.12). -4
                                   Mar (-4, -4x0.1)
             3031 × 3031 × 3011 20011.
                                    = Result 0.
                        * 0.01 = Kesunt
                                          general
   PRELU

Los parayerse

Relu.
                                   d = trainable
powers.
    this is an another varient
    of Relu aims to solve bying
   Relu problem as gradient becoming
    Zero.
     \in \mathcal{U}
        Exponent of
      1 No aying Rew Mobilery.
     @ Ew uses cog curve to
        depère regarine volver.
       Softman Activation to
clower e^{z} e^{z}
 Softmap is used in case of nuticiones
clossification peopley. (output logs)
          → googie
     Lyage classi tication.
       14x40.1
      Midden hoyer.
     89 Moisd
     tann.
     Relu-
    Leaky Relo.
    PRew.
    GIO.
  Output hoys.
  Regression. Where Activotion in -a to o.
 Binary classi signoid 0.5%
```

no of neutons =

Loyer sprake

Neuron specific

no of classes.

yuurclass

69 /tan

Rew.

ogp

DRP.

Activation function 2