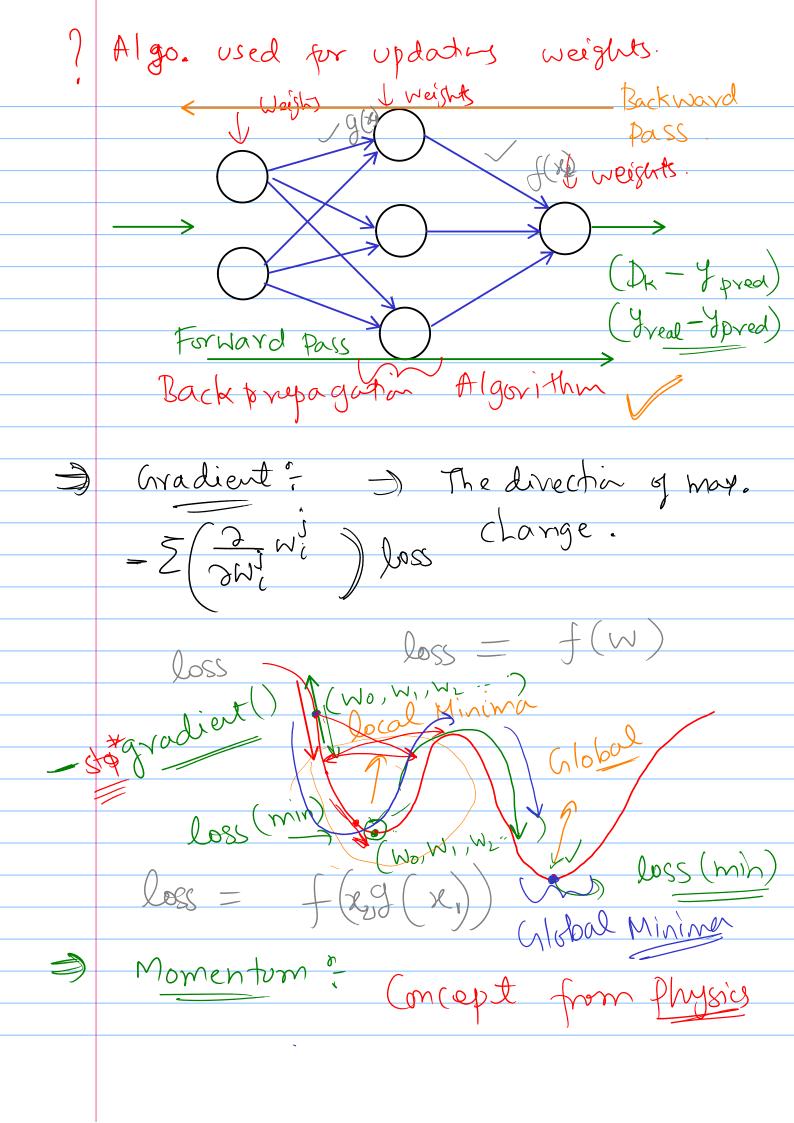
Weights -Enfut Layer hidden layers Durful Optimisor Loss Scove Put the data in input layer. (alculators (111) los function -> generates a loss score Loss score is given to optimisen



f(n), g(n) Loss (W1, W2, W3) Input Layer Pidden Output  $W_3, g(W_2, h(W_1))$ roun Rule: f(g(h(h)))  $g(s) = f'(g(h(w))) \cdot g'(h(w)) \cdot h'(w).$ Chown Rule - $\frac{d(e)}{d(e)} = e^{x^2} \cdot 2x \cdot (\frac{dx}{dn}) = 2x e^{x^2}$ (Stochastic) (wadient Decent:

model. fit (buta, y, opochs= -, batch\_Site=) batch-size = 128 hvadient Randomly (Stochastic) Pubabilistic or Random Losses : 2 - class loss = Binary-crossentry Classification ( Many class.
Multi (categorical crossentropy). Regression = Choosing the right parameters 7 AI Allion ligesatistacture
7-9 Billion. Kill most of tuhomans 2 PM Submit

1. 
$$y = x^2 - 2x + 1$$
  $\Rightarrow \frac{dy}{dn} = 2x - 2 = 0$ 

2.  $y = \sin(x)$ 

3.  $y = xe^{-x}$ 

4.  $y = (x^3 + 3x^2 + 3x + 1)$ 

5.  $y = \cos(x)$ 

$$\frac{d^2y}{dn} = -\sin(x)$$

$$\frac{d^2$$