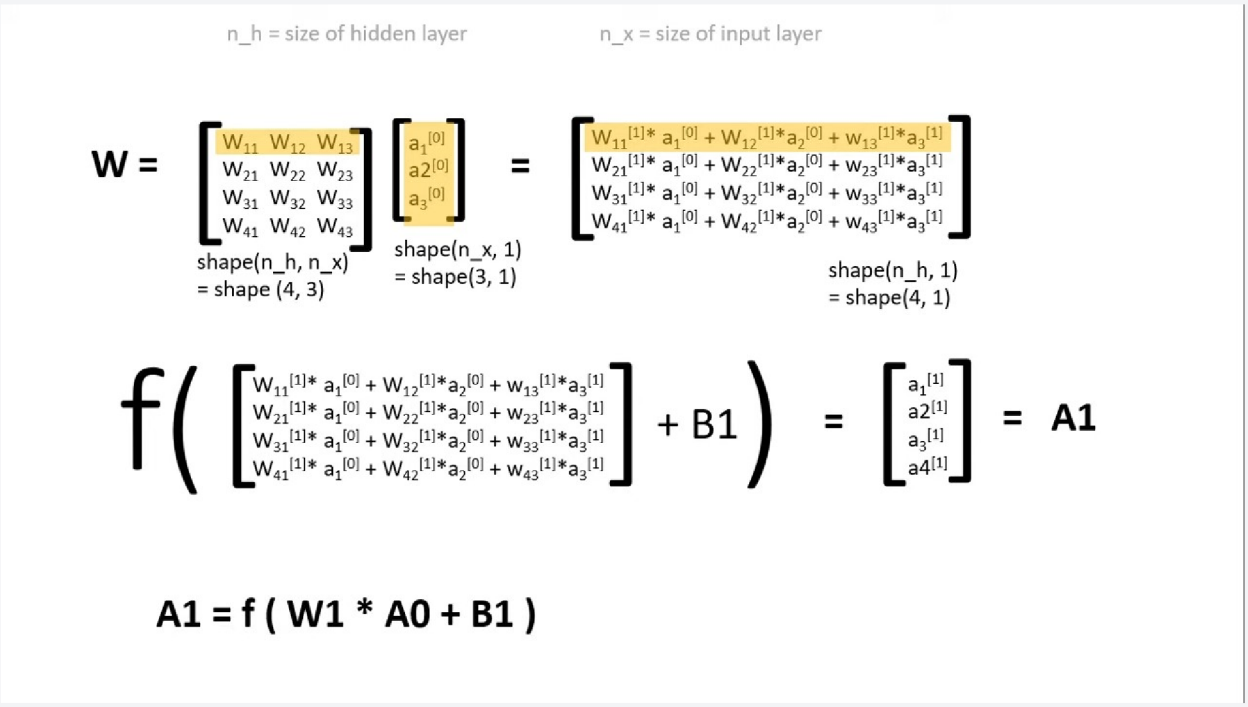
NoteGPT

5 notes 5 screenshots

02:29

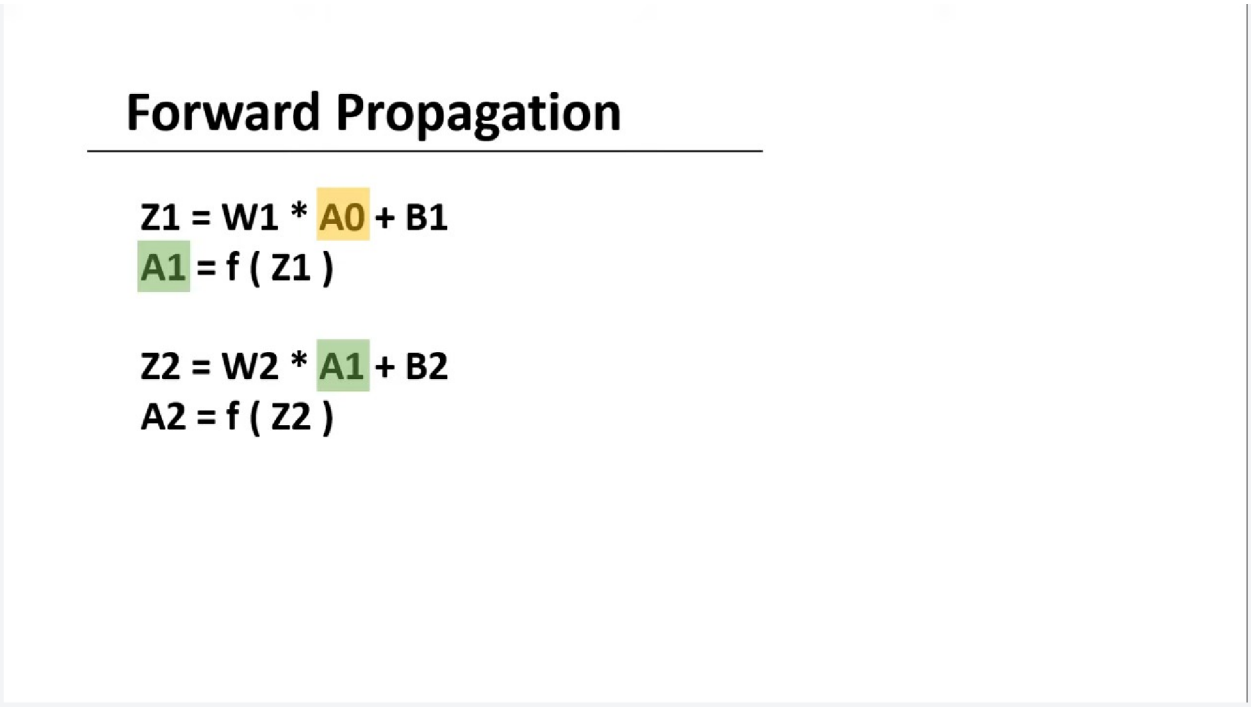
find all the values of the next layer of neurons using matrix multiplication and pass them to sigmoid function



16 hours ago

03:41

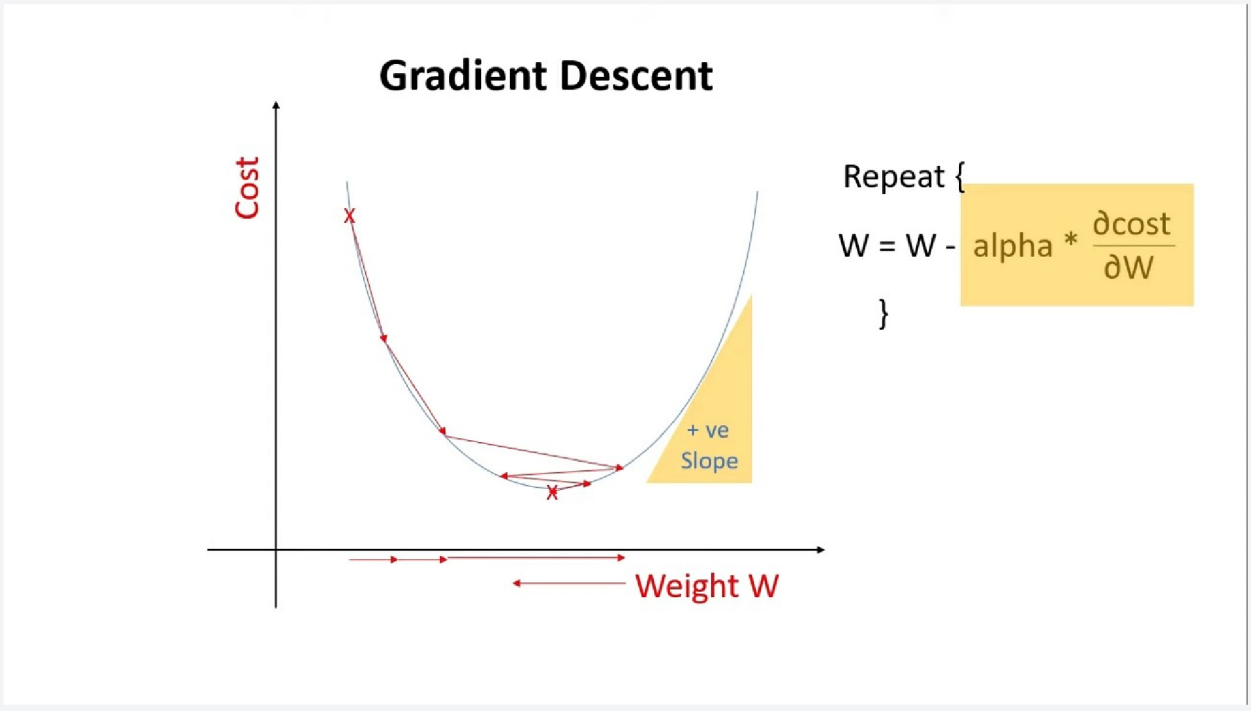
final formulae for forward propagation



16 hours ago

06:59

Gradient descent



9 minutes ago

07:23

Find the new values for w and b while back propogation to minimize the error

Gradient Descent

Repeat {

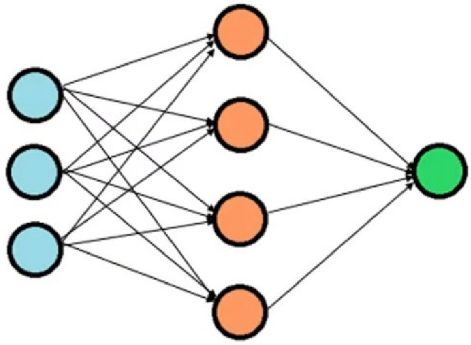
$$W2 = W2 - \text{alpha} * \frac{\partial \text{cost}}{\partial W2}$$

$$B2 = B2 - \text{alpha} * \frac{\partial \text{cost}}{\partial B2}$$

$$W1 = W1 - \text{alpha} * \frac{\partial \text{cost}}{\partial W1}$$

$$B1 = B1 - \text{alpha} * \frac{\partial \text{cost}}{\partial B1}$$

}



8 minutes ago

09:47

How neural network is trained

How a Neural Network is Trained

Step 1 : Initialize weights randomly

Step 2 : Forward Propagation

$$Z1 = W1 * A0 + B1$$
$$A1 = f(Z1)$$

$$Z2 = W2 * A1 + B2$$
$$A2 = f(Z2)$$

Step 3 : find value of Cost

Step 4 : Backward Propagation

$$W2 = W2 - \text{alpha} * \frac{\partial \text{cost}}{\partial W2}$$

$$B2 = B2 - \text{alpha} * \frac{\partial \text{cost}}{\partial B2}$$

$$W1 = W1 - \text{alpha} * \frac{\partial \text{cost}}{\partial W1}$$

$$B1 = B1 - \text{alpha} * \frac{\partial \text{cost}}{\partial B1}$$

Step 5 : Repeat Step 2, 3 and 4 for many times

3 minutes ago