

## FEED FORWARD ➡

1. *Calculate the predictions for the hidden layer*
2. *Activate the hidden layer with ReLU*
3. *Calculate the predictions for the output layer*
4. *Activate the output layer with Softmax*



## COST

*Calculate the cost over all the training data.*

## ← BACK PROPAGATION

1. *Calculate the error derivatives for the output layer*
2. *Calculate the gradient for the weights and biases from hidden to output*
3. *Calculate the error derivatives for the hidden layer*
4. *Calculate the gradient for the weights and biases from input to hidden*
5. *Update the weights and bias*