

Artificial Neural Networks

1. What is the difference between a loss function and a cost function?
2. What is the purpose of an activation function in a neural network?
3. Briefly summarize the back-propagation algorithm.
4. Why is stochastic gradient descent preferred to a non-stochastic one?
5. Why do we use mini-batch stochastic gradient descent?
6. Name the regularization tool used in neural networks and briefly describe it.
7. What does the Adam algorithm do? Briefly discuss.