Quiz 1
* Indicates required question
Email * Your email address
the weights may be reduced to * 1 point zero here
L1 and L2L1
None of the Above L2
If we want to create an optimal * 1 point set of weights, we choose to minimize this loss function
concerning w over the entire training data set. True
O False
What is weight decay? * 1 point Your answer
Bagging is an ensemble technique * 1 point that:
Uses a committee of experts to make predictions
Trains multiple models on different subsets of the data Combines predictions using a weighted average
Constructs an ensemble by iteratively updating weights
Which of these techniques are * 1 point useful for reducing variance (reducing overfitting)?
L2 regularization Data augmentation
What happens when you increase * 1 point the regularization hyperparameter lambda? Your answer
Which of the following functions * 1 point
can be used as an activation function in the output layer if we wish to predict the probabilities of n classes (p1, p2pk) such that sum of p over all n equals to 1?
TanhReLu
SoftmaxSigmoid
Why is the vanishing gradient a * 1 point problem?
The gradient is calculated multiplying two numbers between 0 and 1 With backprop, the gradient becomes
 Smaller as it works back through the net All of above. Training is quick if the gradient is large and slow if its small
Which of the following would have * 1 point
a constant input in each epoch of training a Deep Learning model? Weight between input and hidden layer
 Biases of all hidden layer neurons Weight between hidden and output layer Activation function of output layer
In which of the following * 1 point applications can we use deep
learning to solve the problem? All of the above
Protein structure predictionDetection of exotic particlesPrediction of chemical reactions
Which of the following is/are * 1 point Limitations of deep learning?
None of the aboveObtain huge training datasets
Data labeling Both A and B
The purpose of using ensemble * 1 point learning is to:
 Increase training time and complexity Eliminate the need for labeled data Reduce overfitting and improve
Reduce overfitting and improve generalization Decrease the number of models required
is a kind of function that tells you * 1 point how good the prediction of a network is. cross-entropy
weight decayLoss function
Softmax
Softmax Softmax Loss
O Softmax Loss What is TRUE about the functions * 1 point of a Multi Layer Perceptron?
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