Tests & Quizzes

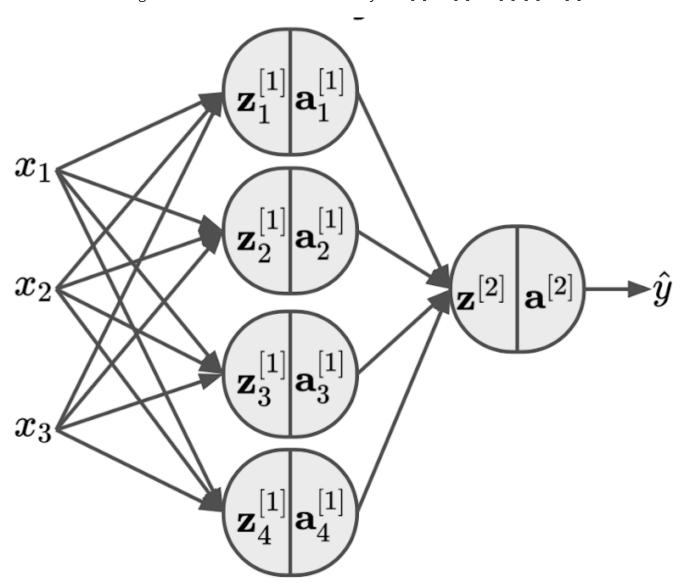
Module 2 Quiz

Return to Assessment List

Part 1 of 1 - / 20.0 Points

Question 1 of 10	2.0 Points	
Which statement is NOT a reason why AN	INs will have more impact today?	
• 🗸 🔾 A. Huge quantity of data availa	able to train	
• 🗸 🔾 B. Increase in computing power		
• 🗸 🔾 C. Development of improved training algorithms		
• 🗸 🔾 D. Theoretical limitation of ANN turns out to be a big threat to its success		
• 🗸 🔾 E. A virtuous circle of funding and progress		
Answer Key: D		
Question 2 of 10	2.0 Points	
Why can the XOR classification problem not be solved using a single Perceptron?		
• 🗸 🔾 A. Because the Perceptron car	only make predictions based on hard threshold	
• 🗸 🔾 B. Because the Perceptron can only make predictions based on probabilities		
• 🗸 🔾 C. Because the Perceptron can only make predictions on linearly separable data		
• 🗸 🔾 D. Because the Perceptron needs additional training data for its training		
• 🗸 🔾 E. All of the above		
Answer Key: C		
Question 3 of 10	2.0 Points	

Consider the following ANN. Which are the dimensionality of W[2] in z[2] = W[2]a[1] + b[2]?



- 🗸 🔾 A.4 x 3
- 🗸 🔾 B. 3 x 1
- 🗸 🔾 C. 4 x 1
- 🗸 🔾 D. 1 x 4
- 🗸 🔾 E. 1 x 1

Answer Key: D

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While training the MLPs using back-prostep?	opagation, the connections weights are updated in which iterative	
• 🗸 🔾 A. Forward Pass		
• 🗸 🔾 B. Backward Pass		
 C. Gradient Descent D. All three steps 		
Answer Key: C		
Question 5 of 10	2.0 Points	
 Which activation function does not wo A. ReLU Function B. Step Function C. Logit Function D. Tanh Function Answer Key: B	rk well with gradient descent?	
Allswei Rey. D		
Question 6 of 10	2.0 Points	
Assume that the inputs x to some scalagradient of f with respect to x ? •	ar function f are n×m matrices. What is the dimensionality of the	
• • D.1 x 1		

• 🗸 🔾 E. n x n		
Answer Key: A		
Question 7 of 10	2.0 Points	
Why is it much more challenging to deal with multiple hyperparameters?		
✓ ☐ A. There exist too many combinations of the hyperparameters		
ullet B. It is too time-consuming to select the right settings of the hyperparameters		
C. The effect of changing a hyperparameter is linear.		
D. A training session can be com time for a trial)	putationally expensive (i.e. requires a lot of computational	
Answer Key: A, B, D		
Question 8 of 10	2.0 Points	
•		
• 🗸 🔾 D. 100		
• 🗸 🔾 E. Just as same as the number of data points.		
Answer Key: E		
Question 9 of 10	2.0 Points	
If you increase the number of iteration of training, and the validation error increase after a while. How could we fix this?		
 A. Stop the training when validation error is lowest B. Have a higher learning rate 		

• 🗸 🔾 C. Select another validation set		
• 🗸 🔾 D. Choose another more powerful algorithm		
• 🗸 🔾 E. Look for a bug in the implementation		
Answer Key: A		
Question 10 of 10	2.0 Points	
Assume that we want to use softmax regression to predict the next word based on some features. What are some problems that might arise from a large vocabulary?		
• 🗸 🔾 A. It will make the probability of every word near 0.		
• 🗸 🔾 B. It will make the softmax function overflow.		
• 🗸 🔾 C. It will make the probability of the highest word near 1.		
• 🗸 🔾 D. It will make the probability of many words equal.		
Answer Key: A		