	Neural Network Basics Graded Quiz • 20 min			Due Feb 21, 2:59 PM WIB
		○ Congratulations! You passed!	to next item	
		Grade received 90% To pass 80% or higher	to next item	
		Neural Network Basics		
		Latest Submission Grade 90%		
		1. In logistic regression given ${\bf x}$ and parameters $w\in \mathbb{R}^{n_x}$, $b\in \mathbb{R}$. Which of the following best expresses what we want \hat{y} to tell us?	1/1 point	
		$\bigcirc \ \ \sigma(W \ \mathbf{x} + b)$		
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		⊘ Correct		
		Yes. We want the output \hat{y} to tell us the probability that $y=1$ given ${f x}$.		
		2. Which of these is the "Logistic Loss"? $\bigcirc \ \mathcal{L}^{(i)}(\hat{y}^{(i)},y^{(i)})=max(0,y^{(i)}-\hat{y}^{(i)})$	1/1 point	
		$igcup_{\mathcal{L}^{(i)}(\hat{y}^{(i)},y^{(i)})=\mid y^{(i)}-\hat{y}^{(i)}\mid}$		
		$igcup \mathcal{L}^{(i)}(\hat{y}^{(i)},y^{(i)}) = \mid y^{(i)} - \hat{y}^{(i)} \mid^2$		
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		Correct Correct, this is the logistic loss you've seen in lecture!		
		3. Consider the Numpy array x :	1/1 point	
		x=np.array([[[1],[2]],[[3],[4]]]) What is the shape of x?		
		(2,2,1)		
		O (4,)		
		O (1, 3, 3)		
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		res. This array has two rows and in each row it has 2 arrays or 1x1.		
		4. Consider the following random arrays a and b , and c : $a=np.random.randn(2,3) \# a.shape=(2,3)$	1/1 point	
		$b = np.random.randn(2,1) \ \# \ b.shape = (2,1)$		
		c=a+b What will be the shape of c ?		
		c.shape = (2, 3)		
		C.shape = (2, 1)		
	Neural Network Basics	C.shape = (3, 2)		
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		✓ Correct Yes! This is broadcasting. b (column vector) is copied 3 times so that it can be summed to each column of a.		
		5. Consider the two following random arrays a and b : $a=np.random.randn(4,3) \# a.shape=(4,3)$	1/1 point	
		$b = np.random.randn(1,3) \ \# \ b.shape = (1,3)$		
		c=a*b What will be the shape of c ?		
		☐ The computation cannot happen because it is not possible to broadcast more than one dimension.		
		c.shape = (4, 3)		
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		c.shape = (1, 3)		
		The computation cannot happen because the sizes don't match.		
		Suppose we use as input grayscale images of 8x8. We reshape these images into feature column vectors \mathbf{x}^{j} .	1/1 point	
		Remember that $X = \left[\mathbf{x}^{(1)}\mathbf{x}^{(2)}\cdots\mathbf{x}^{(8)}\right]$. What is the dimension of X ?		
		(512, 1) (8, 8, 8)		
		(64, 8)		
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	Oracia Quiz - 20 mm	Yes. After converting the 8x8 gray scale images to a column vector we get a vector of size 64, thus X has		
		dimension $(64,8)$.		
		7. Consider the following array:	1/1 point	
		a=np.array([[2,1],[1,3]])		
		What is the result of $np.dot(a,a)$?		
		(5 5)		
	Neural Network Basics			
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← Back		 \(\begin{align*} \left\{ 1 & 1 \\ 1 & 9 \end{align*} \) \(\text{The computation cannot happen because the sizes don't match. It's going to be an "Error"! \(\text{Correct} \) \(Yes, recall that * indicates the component wise multiplication and that np.dot() is the matrix multiplication. 		Due Feb 21, 2:59 PM WIB
← Back		\bigcirc $\begin{pmatrix} 4 & 1 \\ 1 & 9 \end{pmatrix}$ \bigcirc The computation cannot happen because the sizes don't match. It's going to be an "Error"!		Due Feb 21, 2:59 PM WIB
← Back		$\bigcirc \begin{pmatrix} 4 & 1 \\ 1 & 9 \end{pmatrix}$ $\bigcirc \text{ The computation cannot happen because the sizes don't match. It's going to be an "Error"!}$ $\bigcirc \text{ Correct}$ $\text{Yes, recall that * indicates the component wise multiplication and that np.dot() is the matrix multiplication.}$ $\text{Thus } \begin{pmatrix} (2)(2) + (1)(1) & (2)(1) + (1)(3) \\ (1)(2) + (3)(1) & (1)(1) + (3)(3) \end{pmatrix}.$		Due Feb 21, 2:59 PM WIB
← Back		 \(\begin{align*} \left\{ 1 & 1 \\ 1 & 9 \end{align*} \) \(\text{The computation cannot happen because the sizes don't match. It's going to be an "Error"! \(\text{Correct} \) \(Yes, recall that * indicates the component wise multiplication and that np.dot() is the matrix multiplication. 	0 / 1 point	Due Feb 21, 2:59 PM WIB
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← Back	Graded Quiz • 20 min	$\bigcirc \begin{pmatrix} 4 & 1 \\ 1 & 9 \end{pmatrix}$ $\bigcirc \text{ The computation cannot happen because the sizes don't match. It's going to be an "Error"!}$ $\bigodot \text{ Correct}$ $\text{Yes, recall that * indicates the component wise multiplication and that np.dot() is the matrix multiplication.}$ $\text{Thus } \begin{pmatrix} (2)(2) + (1)(1) & (2)(1) + (1)(3) \\ (1)(2) + (3)(1) & (1)(1) + (3)(3) \end{pmatrix}.$ $\textbf{8.}$ $\text{Consider the following code snippet:}$	0/1 point	Due Feb 21, 2:59 PM WIB
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	Neural Network Basics	$ \bigcirc \begin{pmatrix} 4 & 1 \\ 1 & 9 \end{pmatrix} $ $ \bigcirc \text{ The computation cannot happen because the sizes don't match. It's going to be an "Error"!} $ $ \bigcirc \text{ Correct} $ $ \text{ Yes, recall that * indicates the component wise multiplication and that np.dot() is the matrix multiplication.} $ $ \text{ Thus } \begin{pmatrix} (2)(2) + (1)(1) & (2)(1) + (1)(3) \\ (1)(2) + (3)(1) & (1)(1) + (3)(3) \end{pmatrix}. $ $ \textbf{8.} $ $ \text{ Consider the following code snippet:} $ $ \textbf{a.shape} = (3,4) $ $ \textbf{b.shape} = (4,1) $ $ \text{ for i in range(3):} $ $ \text{ CUJU} = \text{aUJU} + \text{bUJ} $ $ \text{How do you vectorize this?} $	0/1 point	
	Neural Network Basics	The computation cannot happen because the sizes don't match. It's going to be an "Error"! Orrect Yes, recall that * indicates the component wise multiplication and that np.dot() is the matrix multiplication. Thus $\binom{(2)(2)+(1)(1)}{(1)(2)+(3)(1)}\binom{(2)(1)+(1)(3)}{(1)(1)+(3)(3)}$. 8. Consider the following code snippet: $a.shape = (3,4)$ $b.shape = (4,1)$ for i in range(3):	0/1 point	
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← Back	Neural Network Basics Graded Quiz • 20 min Neural Network Basics Neural Network Basics	 Q (1 19) The computation cannot happen because the sizes don't match. It's going to be an "Error"! C Correct Vex, recall that * indicates the component wise multiplication and that np.dot() is the matrix multiplication. Thus (2)(2) + (3)(1) (2)(1) + (1)(3) Thus (1)(2) + (3)(1) (1)(1) + (3)(3). 8. Consider the following code snippet: a.shape = (3, 4) b.shape = (4, 1) for i in ransef3: CIU[I] = a[I][I] + b[I] How do you vectorize this? ○ c = a.T + b. ○ c = a.T	0/1 point	Due Feb 21, 2:59 PM WIB
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