1/1 point

4. What are Branch Models?

Congratulations! You passed!

Grade received 100% Latest Submission Grade 100% To pass 80% or higher

Go to next item

1.	 Which of these steps are needed for building a model with the Functional API? (Select three from the list below) Explicitly define an input layer to the model. Define the input layer of the model using any Keras layer class (e.g., Flatten(), Dense(),) Define disconnected intermediate layers of the model. 	1/1 point
	 Connect each layer using python functional syntax. Define the model using the input and output layers. Define the model using only the output layer(s). 	
	 1,3,5 1,4,5 2,4,5 1,4,6 	
	○ Correct Correct!	
2.	<pre>def build_model(): from tensorflow.keras.models import Model input_layer = tf.keras.Input(shape=(28, 28)) flatten_layer = tf.keras.layers.Flatten()(input_layer) first_dense = tf.keras.layers.Dense(128,</pre>	1/1 point
	TrueFalse	
	✓ Correct Correct! This is how you build a functional model	
3.	Only a single input layer can be defined for a functional model. True False Correct Correct!	1/1 point

	A model architecture with linear stack of layers.	
	A model architecture with non-linear topology, shared layers, and even multiple inputs or outputs.	
	A model architecture where you can split the model into different paths, and cannot merge them later.	
	A model architecture with a single recurring path.	
	○ Correct Correct!	
5.	One of the advantages of the Functional API is the option to build branched models with multiple outputs, where different loss functions can be implemented for each output. False	1/1 point
	True	
	○ Correct Correct!	
6.	A siamese network architecture has:	1/1 point
	2 inputs, 1 output	
	O 1 input, 1 output	
	1 input, 2 outputs	
	O 2 inputs, 2 outputs	
	○ Correct Correct!	
7.	What is the output of each twin network inside a Siamese Network architecture?	1/1 point
	O Binary value, 1 or 0	
	An output vector	
	A softmax probability	
	O A number	
	○ Correct Correct!	
8.	What is the purpose of using a custom contrastive loss function for a siamese model?	1 / 1 point
	A custom loss function is required for using the RMSprop() optimizer.	
	A custom built function is required because it is not possible to use a built-in loss function with the Lambda layer.	
	As a custom built function, it provides better results and it is faster to run.	
	It is a custom built function that can calculate the loss on similarity comparison between two items.	
	○ Correct Correct!	