

✓ Congratulations! You passed!

TO PASS 80% or higher



grade 100%

Practice Quiz: Test your Project Understanding

LATEST SUBMISSION GRADE 100% 1. What does the following code return? 1 / 1 point 1 df.isnull() Boolean values Int values Float values String values ✓ Correct Great job! It returns True or False (i.e.: boolean values). 2. What does the following code do? 1 / 1 point 1 df.dropna() Removes the row containing null values Removes the column containing null values Great job! This command remove the entire row, if it contains null values. While training your CNN model, you found that the training accuracy is 98% and the validation accuracy is 80%. What could be the reason for this? Model generalized well because of underfitting Model generalized well because of overfitting Model generalized poorly because of underfitting Model generalized poorly because of overfitting Great job! Since the training accuracy is very high and the validation score is low, it means that the model has overfitted the training data and it did not generalize well. 4. Which of the following code will flip the image vertically? 1 np.flip(image, axis = 2) 1 np.flip(image, axis = 1)

	●
	1 np.flip(jimage, axis = 0)
	1 np.flip(image, axis = 3)
	Correct Great job! In-order to flip the image vertically, we have to flip along x-axis. In this code, axis = 0 represents x-axis
5.	If your image is of shape (96,96). What does the following code return?
	1 np.expand_dims(image, axis = 1)
	(1,96,96) (96,1,96)
	(96,96,1)
	Correct Great job! Since 'axis = 1', it would insert a new axis along the mentioned axis position.
6.	Why Convolutional Neural Networks are preferred for computer vision applications? 1/1 point
	CNNs has a built-in generalization capability
	CNNs are able to update their weights much better compared to other networks
	CNNs are able to remember the relationship between various input images
	CNNs are able to extract high level features
	✓ Correct
	Excellent job! the main advantage of CNNs is that they are able to automatically extract high level features from images.
7.	Does this code shuffle and split the data?
	1 X_train, X_test, y_train, y_test = train_test_split(X,y, test_size = 0.1)
	Yes
	No, it does not.
	 Correct Great job! By default, train_test_split shuffles the data while splitting.
8.	What happens when you remove MaxPool2D layer from the res_block function?
	✓ Training time increases.

	✓	Correct Great job! When you remove maxpooling layers, you increase the number of features that are passed to the next layers, which in-turn increases the training time.	
	✓ Tot	tal number of trainable parameter increases.	
	✓	Correct Great job! When you remove maxpooling layers, you increase the number of features that are passed to the next layers, which in-turn increases the number of trainable parameters.	
	Tra	aining time decreases.	
	Tot	tal number of trainable parameters decreases.	
).		raining the model, you note that the model is over-fitting. What changes can be made to the architecture to avoid over-fitting	1 / 1 point
Э.	model		1/1 point
Э.	model Use	architecture to avoid over-fitting	1/1 point
).	Model Use	architecture to avoid over-fitting e more dataset	1/1 point
Э.	Uso Ad	e more dataset e early stopping	1/1 point