Day-20 Quiz-DataScience-Training

Welcome to the Python Programming Quiz! This quiz tests your knowledge of daily learnings. Please read the instructions carefully before starting the quiz.

Instructions and Rules

- Time Limit: You have 20 minutes to complete the quiz.
- Number of Questions: The quiz consists of 20 multiple-choice questions.
- Scoring: Each correct answer is worth 1 point. There is no negative marking for incorrect answers.
- Single Attempt: You are allowed only one attempt to complete the quiz.
- Required Fields: All questions are mandatory. You must answer each question to submit the quiz.
- Resources: This is a closed-book guiz. Do not use any external resources, including books, notes, or the internet.
- **Honesty:** Please answer the questions honestly and to the best of your ability. Cheating or dishonesty will result in disqualification.
- Environment: Ensure you are in a quiet environment where you can concentrate without interruptions.
- Technical Issues: In case of technical issues, please contact the quiz administrator immediately.
- Retakes: There are no retake opportunities for this quiz. Ensure you are prepared before starting.

Good luck, and do your best!

* Indicates required question		

1. Email *

2.	1. What is the primary goal of a flower classification project? *
	Mark only one oval.
	A) To count the number of flowers in an image B) To classify images of flowers into different categories C) To detect edges in flower images
	D) To enhance the colors in flower images
3.	2. What is TensorFlow? *
	Mark only one oval.
	A) A library for image processing
	B) A framework for machine learning and deep learning
	C) A tool for web development
	D) A database management system

3. How do you import the TensorFlow module in Python? *
Mark only one oval.
A) import tensorflow as tf
B) import tf as tensorflow
C) import tensorflow
D) from tensorflow import tf
4. What is the purpose of the Conv2D layer in a neural network?
4. What is the purpose of the Conv2D layer in a neural network? Mark only one oval.
Mark only one oval. A) To perform convolution operations on images

6.	5. What does the MaxPooling2D layer do in a neural network? *
	Mark only one oval.
	A) It adds fully connected layers
	B) It performs convolution operations
	C) It flattens the input
	D) It reduces the spatial dimensions of the input
7.	6. What is the purpose of the Flatten layer in a neural network? *
	Mark only one oval.
	A) To add fully connected layers
	B) To perform pooling operations
	C) To convert 2D arrays into 1D arrays
	D) To perform convolution operations

8.	7. What is a Dense layer in a neural network? *
	Mark only one oval.
	A) A layer that performs convolution operations B) A layer that performs pooling operations C) A fully connected layer
	D) A layer that normalizes the input
9.	8. What is the purpose of the Sequential model in TensorFlow? *
	Mark only one oval.
	 A) To perform data augmentation B) To define a linear stack of layers C) To load pre-trained models D) To optimize hyperparameters

10.	9. What is the role of activation functions in a neural network? *
	Mark only one oval.
	A) To perform pooling operations
	B) To introduce non-linearity into the network
	C) To reduce the dimensionality of the input
	D) To convert 2D arrays to 1D arrays
11	10. Which of the following is a commonly used activation function? *
11.	10. Which of the following is a commonly used activation function? * Mark only one oval.
1.	Mark only one oval.
1.	Mark only one oval. A) Sigmoid
11.	Mark only one oval. A) Sigmoid B) ReLU

12.	11. What is the purpose of an optimizer in a neural network? *
	Mark only one oval.
	A) To define the architecture of the network
	B) To minimize the loss function
	C) To perform data augmentation
	D) To initialize the weights
13.	12. Which of the following is a commonly used optimizer? *
13.	12. Which of the following is a commonly used optimizer? * Mark only one oval.
13.	
13.	Mark only one oval.
13.	Mark only one oval. A) SGD
13.	Mark only one oval. A) SGD B) Adam
13.	Mark only one oval. A) SGD B) Adam C) RMSprop

14.	13. What is data augmentation in the context of deep learning? *
	Mark only one oval.
	A) Increasing the size of the training data by adding synthetic data B) Reducing the size of the training data C) Normalizing the training data D) Splitting the training data into batches
15.	14. What is the purpose of the ImageDataGenerator in TensorFlow? *
15.	14. What is the purpose of the ImageDataGenerator in TensorFlow? *Mark only one oval.A) To perform data augmentation
15.	Mark only one oval.

16.	15. What does setting verbose=1 do during model training in TensorFlow? *
	Mark only one oval.
	 A) It prints detailed logs of the training process B) It prints only the final accuracy C) It disables logging D) It saves the model checkpoints
17.	16. In the context of object detection, what does confidence score represent? *
	Mark only one oval.
	A) The accuracy of the model B) The certainty of the detected object C) The speed of the detection process D) The size of the detected object

18.	17. What does specifying input_shape in the first layer of a Sequential model do? *
	Mark only one oval.
	A) Sets the batch size for training
	B) Defines the shape of the input data for the model
	C) Determines the number of epochs
	D) Configures the learning rate of the model
19.	18. What is the use of ImageDataGenerator in TensorFlow? *
	Mark only one oval.
	A) To generate synthetic data
	B) To load and augment image data
	C) To visualize image data
	D) To save image data

19. Which of the following is not a parameter of the cv2.putText() function? *
Mark only one oval.
A) image
B) text
C) org
D) filter
20. What will happen if you do not include cv2.waitKey(0) after cv2.imshow()? *
Mark only one oval.
A) The image window will close immediately
B) The image window will stay open indefinitely
b) The image window will stay open indefinitely
C) The image window will not display

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