Day-19 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
	4

1. Email *

2.	2. 1. What is the primary purpose of OpenCV? *				
	Mark only one oval.				
A) Text processing					
	B) Image and video processing				
	C) Database management				
	D) Network communication				
3.	2. How do you read an image using OpenCV? *				
3.	2. How do you read an image using OpenCV? * Mark only one oval.				
3.					
3.	Mark only one oval.				
3.	Mark only one oval. A) cv2.loadImage()				
3.	Mark only one oval. A) cv2.loadImage() B) cv2.read()				
3.	Mark only one oval. A) cv2.loadImage() B) cv2.read() C) cv2.imread()				

4.	3. What does the function cv2.imshow() do in OpenCV? *
	Mark only one oval.
	A) It loads an image
	B) It displays an image
	C) It saves an image
	D) It processes an image
5.	4. What does cv2.waitKey(0) do in OpenCV? *
	Mark only one oval.
	A) Waits for a key event indefinitely
	B) Closes the image window
	C) Reads the next frame of a video
	D) Converts an image to grayscale

6.	6. 5. How do you draw a line on an image using OpenCV? *				
	Mark only one oval.				
	A) cv2.line(image, start_point, end_point, color, thickness) B) cv2.drawLine(image, start_point, end_point, color, thickness) C) cv2.plotLine(image, start_point, end_point, color, thickness) D) cv2.paintLine(image, start_point, end_point, color, thickness)				
7.	6. Which function is used to draw a rectangle in OpenCV? *				
	Mark only one oval.				
	A) cv2.rectangle(image, start_point, end_point, color, thickness) B) cv2.drawRect(image, start_point, end_point, color, thickness) C) cv2.plotRect(image, start_point, end_point, color, thickness) D) cv2.paintRect(image, start_point, end_point, color, thickness)				

7. How can you draw a circle on an image in OpenCV? *				
Mark only one oval.				
A) cv2.circle(image, center, radius, color, thickness) B) cv2.drawCircle(image, center, radius, color, thickness) C) cv2.plotCircle(image, center, radius, color, thickness) D) cv2.paintCircle(image, center, radius, color, thickness)				
8. How do you put text on an image in OpenCV? *				
Mark only one oval.				
A) cv2.text(image, text, org, font, scale, color, thickness) B) cv2.putText(image, text, org, font, scale, color, thickness) C) cv2.drawText(image, text, org, font, scale, color, thickness) D) cv2.paintText(image, text, org, font, scale, color, thickness)				

10. 9. Which function in OpenCV is used to calculate the histogram of an in				
	Mark only one oval.			
	A) cv2.histogram()			
	B) cv2.calcHist()			
	C) cv2.calcHistogram()			
	D) cv2.hist()			
11.	10. What does a histogram represent in an image? *			
	Mark only one oval.			
	A) The distribution of colors			
	B) The distribution of pixel intensities			
	C) The distribution of edges			
	D) The distribution of shapes			

11. What does spatial resolution refer to in the context of images? *
Mark only one oval.
A) The number of pixels
B) The color depth
C) The file size
D) The image format
12. What does gray level resolution refer to? *
12. What does gray level resolution refer to? * Mark only one oval.
Mark only one oval.
Mark only one oval. A) The number of different shades of gray that can be represented
Mark only one oval. A) The number of different shades of gray that can be represented B) The number of pixels in the image C) The image format
Mark only one oval. A) The number of different shades of gray that can be represented B) The number of pixels in the image

14.	. 13. What is the purpose of convolution in image processing?				
	Mark only one oval.				
A) To apply filters to an image B) To change the color space of an image					
	C) To resize an image				
	D) To convert an image to grayscale				
15.	14. What is the purpose of smoothing (blurring) an image? *				
15.	14. What is the purpose of smoothing (blurring) an image? * Mark only one oval.				
15.					
15.	Mark only one oval.				
15.	Mark only one oval. A) To reduce noise				
15.	Mark only one oval. A) To reduce noise B) To enhance edges				
15.	Mark only one oval. A) To reduce noise B) To enhance edges C) To change the color space				

16.	15. Which function is used to convert an image from one color space to another in OpenCV? *					
	Mark only one oval.					
	A) cv2.changeColor()					
	B) cv2.convertColor()					
	C) cv2.colorConvert()					
	D) cv2.cvtColor()					
17.	16. What is the purpose of thresholding in image processing? *					
	Mark only one oval.					
	A) To convert a grayscale image to a binary image					
	B) To smooth an image					
	C) To sharpen an image					
	D) To resize an image					

18.	18. 17. What does the Sobel operator detect in an image? *				
	Mark only one oval.				
	A) Colors				
	B) Edges				
	C) Shapes				
	D) Textures				
19.	18. What are key-points in the context of image features? *				
19.	18. What are key-points in the context of image features? * Mark only one oval.				
19.					
19.	Mark only one oval.				
19.	Mark only one oval. A) Important points in an image				
19.	Mark only one oval. A) Important points in an image B) Color values in an image				
19.	Mark only one oval. A) Important points in an image B) Color values in an image C) Shapes in an image				

20.	19. How do you capture a video stream from a webcam using OpenCV? *
	Mark only one oval.
	A) cv2.VideoCapture(0)
	B) cv2.openVideo(0)
	C) cv2.startVideo(0)
	D) cv2.captureVideo(0)
21.	20. How do you display video frames in real-time using OpenCV? * Mark only one oval.
	Mark only one oval.
	A) cv2.show()
	B) cv2.display()
	C) cv2.imshow()
	D) cv2.view()

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