9:30p	om to 10:30pm 14Jan 2023 -
Scree	-
mjjainmanv	vi@gmail.com Switch account
⊘	
* Required	
Technical	
test = [exa	nm for exam in 'entrancesrishti' if exam in 'tons'] Predict output of this de.
['entra	nce']
['srish	ti']
['n','t','n	','s','s','t']
syntax	< error
None	of these

In clustering which of the following methods is used to know the number of clusters ?		
None of these		
Sequencing		
Thresholding		
Graph modeling		
If A = [[3, 4], [2, 3]], is a square matrix in Python, the determinant of A would be		
O None of these		
O 0		
O 6		
O 2		
Identify the plot which is a combination of box plot and distribution plot.		
scatter plot		
oviolin plot		
o pair plot		
guitar plot		

To which of these can image classification be an example		
unsupervised learning		
o supervised learning		
insufficient data in question		
reinforcement learning		
Consider we are using Principle Component Analysis to compress face images using top K eigenvectors and attempt reconstruction, subsequently. Here,		
reconstruction will be bad for non-face images		
reconstruction will be good for non-face images		
compression for face images would be lossy		
compression for face images would be lossless.		
What do you think could be represented as vectors		
an image		
specifications of an ARM processor		
words in a poem		
dna of an organism		

What could be a reasonable way to approach missing value problem in a dataset		
remove samples having missing values in features		
missing value problems cannot be resolved		
replace missing value with mean or median		
remove the feature, if it has too many missing values		
In the testing stage, what are the inputs and outputs to the classifier? *		
Input: test samples. Output: Test features		
O Input: training features. Output: Predicted labels		
Input: training features, training labels. Output: Learned model		
Input: test features, learned model. Output: Predicted labels		
Which is the odd one		
O logistic regression		
Support vector machine		
O decision trees		
O linear regression		

If A is a square matrix, then		
○ A + I = A		
○ A + -A = I		
$\bigcirc A + 0 = A$		
A = Transpose of A		
Which libraries can generate graphics plots.		
matplotlib		
seaborn		
pandas		
math		
A matrix multiplied by a scalar is commonly known as		
omplex multiplication		
O linear regression		
scalar multiplication		
Constant transformation		

In a garden there are 4 red flowers, 6 yellow flowers and 5 violent flowers. What is the probability that a flower is plucked at random, is neither red nor yellow.

1/3

6/14

10/15

5/14

Assume barking of a dog follows some patterns that could be matched to situations. A machine learning model has been trained to identify the situation based on patterns of the bark. A team of researchers want to modify and apply this technique on different types of crying-patterns of infant human babies to help their caretakers or mothers attend to situations more easily. A good way for this would be to

this is practically impossible, as datasets on cries of babies aren't available
 strictly follow the same machine learning model - its architecture, algorithms, functions etc
 use or create appropriate datasets and apply appropriate learning techniques
 convince those researchers not to use machine learning techniques on babies

A machine learning problem can be generally written as y=f(x). What does y, f and x stand for?

- \bigcirc y = model, f = data samples, x = labels
- y = data samples, f = model, x = labels
- y=labels, f=model, x=data samples
- y = model, f = labels, x = data samples

В

If A is a 'c x b' matrix, and if AB and BA are valid, then B is a matrix
□ b x b
□ cxc
□ bxc
cxb
The sum of ages of two boys and a girl is 60. How can this be represented in an equation?
O None of these
g + bb = 60
2b + 1g + 60 = 0
2g + b = 60

Matrix equations can be solved using		
neither row echelon form nor inverse of a matrix		
inverse of a matrix		
both row echelon and inverse of matrix		
row echelon form		

Which of these could be disadvantages of principal component analysis (PCA)		
Fewer misleading data impacting model accuracy.		
Transformed features are sometimes hard to interpret.		
Some information is lost, possibly degrading the performance of subsequent training algorithms.		
Removes redundant features and noise.		
What is the statistical median of the following series: 8, 4, 7, 3, 5		
O none of these		
O 5.4		
O 7		
O 5		
What best describes a gradient descent algorithm		
its a loss function		
its an activation function		
its an optimization algorithm		
its a hyperparameter tuning function		

In the context of supervised machine learning, tick all that apply				
overfitting is a modeling error, that occurs when a function fits closer to a set of limited training data,				
perfect fitting of all training samples is the best option.				
regularization decreases the chances of overfitting,				
supervised learning is all about overfitting training data,				
Which of these cannot be solved using machine learning				
predicting the next random number of a random-number generator				
identifying an individual using face detection				
moving on roads by self-driving cars				
identifying tumour in brain from scanned images				
Which of the following could be sources for data in AI/ML projects *				
O Structured data				
O Unstructured data				
Insufficient information to provide an answer				
Semi-structured data				

For the task of classification, a good feature should ideally be					
	close to zero for all samples				
	almost same for all samples				
	varying for samples/classes				
	a whole number for all samples				
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