Validation set is used to	
Test ML model	
Train ML model	
Hyperparameter tuning	
None of the above	
	Clear selection
Data Augmentation leads to	
Data Augmentation leads to Increase in training datapoints	
O Increase in training datapoints	
Increase in training datapointsDecreased overfitting	

Which of the following Data Augmentation methods is not suitable classification on MNIST dataset?	able for image
Lateral inversion (mirror images)	
Random Rotates	
Translation of number pixels in a direction	
Random Shear	
	Clear selection
In computer graphics and image processing, affine transformations of a 3x3 matrix to perform various geometric operations of matrix operation represents a combination of translation, rotate transformations, but not shear transformations?	n 2D images. Which
use of a 3x3 matrix to perform various geometric operations of matrix operation represents a combination of translation, rotate	n 2D images. Which
use of a 3x3 matrix to perform various geometric operations of matrix operation represents a combination of translation, rotat transformations, but not shear transformations?	n 2D images. Which
use of a 3x3 matrix to perform various geometric operations of matrix operation represents a combination of translation, rotate transformations, but not shear transformations? Identity matrix Identity matr	n 2D images. Which
use of a 3x3 matrix to perform various geometric operations of matrix operation represents a combination of translation, rotate transformations, but not shear transformations? Identity matrix	n 2D images. Which

MNIST dataset is about	
California housing	
Handwritten digits	
Animal species	
All of the above	
	Clear selection
In k-NN, the choice of distance metric (e.g., Euclidean distar impact the algorithm's performance. (TRUE / FALSE)	nce) can significantly
TRUE	
○ FALSE	
	Clear selection

What is the expected accuracy of a random classifier on MNIST	dataset?
O 16%	
O 25%	
20%	
10%	
	Clear selection
What is the purpose of feature extraction using n-grams in text	data?
What is the purpose of feature extraction using n-grams in text To reduce the dimensionality of text data	data?
	data?
To reduce the dimensionality of text data	data?
To reduce the dimensionality of text dataTo identify frequent words in the text	data?
 To reduce the dimensionality of text data To identify frequent words in the text To convert text into numerical features 	data? Clear selection

The k-NN algorithm can handle categorical features without any a preprocessing, as it uses a modified distance metric for categoric FALSE)	
○ TRUE	
FALSE	
	Clear selection
What does the 'n' in n-gram represent?	
The number of sentences in a text	
The number of documents in a corpus	
The number of characters in the n-gram	
The number of topics in a text	
	Clear selection

Which of the following image features we used for classifying be 0 and 1 from MNIST Dataset?	etween images of
O Hole Pixels	
O Hull Pixels	
O Boundary Pixels	
All of the above.	
	Clear selection
What does the 'K' in KNN represent?	
The number of features in the dataset	
The distance metric used for classification	
The number of nearest neighbors to consider	
The number of classes in the dataset	
	Clear selection

Increasing value of K in KNN will	
O Increase test accuracy	
Decrease test accuracy	
O Increase train accuracy	
O None of the above	
	Clear selection
What is the primary purpose of the KNN algorithm?	
What is the primary purpose of the KNN algorithm? Classification	
Classification	
ClassificationRegression	
ClassificationRegressionClustering	Clear selection

What is machine learning?	
A type of computer hardware	
A programming language	
A technique for teaching computers to learn from data	
A form of data visualization	
	Clear selection
Which of the following is not an accuracy metric commonly use learning?	d in machine
	d in machine
learning?	d in machine
learning? Mean Absolute Error (MAE)	d in machine
learning? Mean Absolute Error (MAE) Root Mean Squared Error (RMSE)	d in machine

KNN with K=1 will always give training accuracy as 100%. (TRU	JE / FALSE)
● TRUE	
○ FALSE	
	Clear selection
In a tetragram (4-gram), how many words are considered at a t	ime?
Two but each is counted twice	
Four	
○ Eight	
It varies depending on text	
	Clear selection

KNN with K>1 will always give training accuracy as 100% (TRUE / FALSE)
O TRUE
FALSE
Clear selection
In KNN what happens when K is too small, and when K is too large?
When K is too small, the model becomes more sensitive to outliers, and when K is too large, the model loses discriminative power
When K is too small, the model tends to have lower bias and higher variance, and when K is too large, the model tends to have higher bias and lower variance
When K is too small, the model experiences higher bias and lower variance, and when K is too large, the model has lower bias and higher variance
When K is too small, the model becomes more complex, and when K is too large, the model becomes simpler
Clear selection

dataset, feature?
d in
selection

You are given an unknown language that consists of only 7 unique characters. Now you are trying to build a N-gram frequency distribution for N=3. What could be the maximum number of keys / unique tuples / grams in the 3-gram distribution for this given language?

- 343
- 1029
- **421**
- 729

Clear selection

What is the primary purpose of the validation set in machine lea	arning?
To evaluate the model's performance on unseen data	
O To train the model and update its parameters	
O To test the model's generalization to the training data	
To reduce the model's bias	
	Clear selection
In machine learning, what is the primary purpose of data splitting train-test split?	ng techniques like
	ng techniques like
train-test split?	ng techniques like
train-test split? To increase model complexity	ng techniques like
train-test split? To increase model complexity To reduce overfitting	ng techniques like

What is the primary purpose of data augmentation in machine learning, particularly for image datasets?
To reduce the size of the training dataset
To increase the model's complexity
To improve model generalization and robustness
O To eliminate noise in the data
Clear selection
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