Which of the following can NOT be taken as a feature for an "imag dataset?	e" based
Sum of pixel values	
N-grams	
Number of black pixels surrounded by 4 non-black pixels	
The entire image taken as a 28*28 vector	
	Clear selection
Data normalization is a method in which we transform the feature have similar scales. (TRUE / FALSE)	s so that they
TRUE	
○ FALSE	
	Clear selection

Which of the following are data augmentation techniques for image based datasets?
Shear
Rotation
Both Shear and Rotation
None of the above
Clear selection
Which technique can be used to reduce overfitting in machine learning models?
Feature extraction
Feature scaling
<ul><li>Cross-validation</li></ul>

Which of the following statements about one-hot encoding is true?
One-hot encoding is a technique for converting categorical data into numerical format.
One-hot encoding is used for reducing the dimensionality of the data.
One-hot encoding assigns a continuous value to each category.
One-hot encoding is mainly used for regression tasks.
Clear selection
Which of the following ML paradigms involves an ML agent trained to act based on a reward function or a policy?
on a reward function or a policy?
on a reward function or a policy?  Supervised learning
on a reward function or a policy?  Supervised learning Self supervised learning

Which Python library is commonly used for implementing K-Near NN) algorithm?	est Neighbors (K-
<ul><li>Scikit-learn</li></ul>	
O Pandas	
Matplotlib	
Tensorflow	
	Clear selection
Which metric we used to evaluate KNN based model in our lab?	
<ul><li>Which metric we used to evaluate KNN based model in our lab?</li><li>Mean Squared Error (MSE)</li></ul>	
Mean Squared Error (MSE)	
<ul><li>Mean Squared Error (MSE)</li><li>R-squared (R²)</li></ul>	

Which of the following transformations is not considered a linear transformation?
O Uniform scaling
Non-uniform scaling
Shear
None of the above
Clear selection
Which of the following are NOT properties of clipping in data preprocessing?
Which of the following are NOT properties of clipping in data preprocessing?  Clipping helps prevent data loss by scaling values within a specified range.
Clipping helps prevent data loss by scaling values within a specified range.
<ul><li>Clipping helps prevent data loss by scaling values within a specified range.</li><li>It can effectively handle outlier influence in the dataset.</li></ul>
<ul> <li>Clipping helps prevent data loss by scaling values within a specified range.</li> <li>It can effectively handle outlier influence in the dataset.</li> <li>Clipping guarantees the transformation of data into a normal distribution.</li> </ul>

Which of the following features can be extracted from the text?	
Unigram	
Bigram	
O N-gram	
<ul><li>All of the above</li></ul>	
	Clear selection
What is the purpose of a validation dataset?	
To provide additional training data	
To test the model's performance on unseen data during training	
To measure the accuracy of the training data	
To train the model without any supervision	

Which of the following is not used for text featurizing?	
O N-Grams	
O Bag of words	
One-Hot Encoding	
	Clear selection
What is the purpose of the "fit" method when using scikit-learn n	nodels?
What is the purpose of the "fit" method when using scikit-learn n  To make predictions on new data	nodels?
	nodels?
To make predictions on new data	nodels?
<ul><li>To make predictions on new data</li><li>To visualize the data</li></ul>	nodels?

How many character Bigrams are possible in a text written using only english lowercase alphabets?
26*26
O 26*25
25*25
O 26*27
Clear selection
The accuracy on the training set for a Nearest Neighbor (NN) based classification is
O Depends on the dataset
C Less than 1
<ul><li>Less than 1</li><li>Always equal to 1</li></ul>

Which of the following are NOT disadvantages of the nearest neign (select the most correct option)	hbor classifier?
High computational complexity during prediction	
Sensitivity to irrelevant features	
O Difficulty handling datasets with high dimensionality	
Always requires a large amount of training data	
	Clear selection
Which is NOT needed for unsupervised learning?	
Which is NOT needed for unsupervised learning?	
Hyperparameter tuning	
<ul><li>Hyperparameter tuning</li><li>Labelled dataset</li></ul>	

Which of the following is NOT a classifier?	
O Decision Trees	
Support Vector Machines	
○ KNN	
None of the above	
	Clear selection
	Glear selection
	Clour Schoolion
Accuracy is the ratio of the number of correctly classified san number of samples. (TRUE / FALSE)	
-	
number of samples. (TRUE / FALSE)	

Which Python library is commonly used for implementing mach algorithms and data preprocessing?	ine learning
Numpy	
Pandas	
Matplotlib	
○ Tensorflow	
	Clear selection
What value of rotation angle (in degrees) was giving best accura	acy for different
	acy for different
shear angle values for the MNIST dataset?	acy for different
shear angle values for the MNIST dataset?  30°	acy for different
shear angle values for the MNIST dataset?  30°  90°	acy for different

Which of these is a popular normalization technique?	
O Z-score	
Clipping	
Min-Max	
All of the above	
	Clear selection
What does the term "matrix rank" refer to in linear algebra?	
What does the term "matrix rank" refer to in linear algebra?  The number of rows in the matrix	
The number of rows in the matrix	
<ul><li>The number of rows in the matrix</li><li>The number of columns in the matrix</li></ul>	in the matrix
<ul><li>The number of rows in the matrix</li><li>The number of columns in the matrix</li><li>The maximum absolute value in the matrix</li></ul>	in the matrix  Clear selection

Which scikit-learn function is used to split a dataset into training and testing sets?	
<pre>train_test_split()</pre>	
<pre>split_dataset()</pre>	
<pre>test_train_split()</pre>	
<pre>dataset_split()</pre>	
Clear selection	n
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