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Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q315-Q320):

NEW QUESTION # 315

You create a binary classification model to predict whether a person has a disease.

You need to detect possible classification errors.

Which error type should you choose for each description? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Description	Error type
A person has a disease. The model classifies the case as having a disease.	True Positives True Negatives False Positives False Negatives
A person does not have a disease. The model classifies the case as having no disease.	True Positives True Negatives False Positives False Negatives
A person does not have a disease. The model classifies the case as having a disease.	True Positives True Negatives False Positives False Negatives
A person has a disease. The model classifies the case as having no disease.	True Positives True Negatives False Positives False Negatives

Answer:

Explanation:

Description

Error type

A person has a disease. The model classifies the case as having a disease.

	▼
True Positives	
True Negatives	
False Positives	
False Negatives	

A person does not have a disease. The model classifies the case as having no disease.



	▼
True Positives	
True Negatives	
False Positives	
False Negatives	

A person does not have a disease. The model classifies the case as having a disease.

	▼
True Positives	
True Negatives	
False Positives	
False Negatives	

A person has a disease. The model classifies the case as having no disease.

	▼
True Positives	
True Negatives	
False Positives	
False Negatives	

Explanation:

Description	Error type
A person has a disease. The model classifies the case as having a disease.	▼ True Positives True Negatives False Positives False Negatives
A person does not have a disease. The model classifies the case as having no disease.	▼ True Positives True Negatives False Positives False Negatives
A person does not have a disease. The model classifies the case as having a disease.	▼ True Positives True Negatives False Positives False Negatives
A person has a disease. The model classifies the case as having no disease.	▼ True Positives True Negatives False Positives False Negatives

Box 1: True Positive

A true positive is an outcome where the model correctly predicts the positive class Box 2: True Negative A true negative is an outcome where the model correctly predicts the negative class.

Box 3: False Positive

A false positive is an outcome where the model incorrectly predicts the positive class.

Box 4: False Negative

A false negative is an outcome where the model incorrectly predicts the negative class.

Note: Let's make the following definitions:

"Wolf" is a positive class.

"No wolf" is a negative class.

We can summarize our "wolf-prediction" model using a 2x2 confusion matrix that depicts all four possible outcomes:

Reference:

<https://developers.google.com/machine-learning/crash-course/classification/true-false-positive-negative>

NEW QUESTION # 316

You are determining if two sets of data are significantly different from one another by using Azure Machine Learning Studio.

Estimated values in one set of data may be more than or less than reference values in the other set of data. You must produce a distribution that has a constant Type I error as a function of the correlation.

You need to produce the distribution.

Which type of distribution should you produce?

- A. Unpaired t-test with a two tail option
- B. Unpaired t-test with a one-tail option
- C. Paired t-test with a one-tail option
- D. Paired t-test with a two-tail option

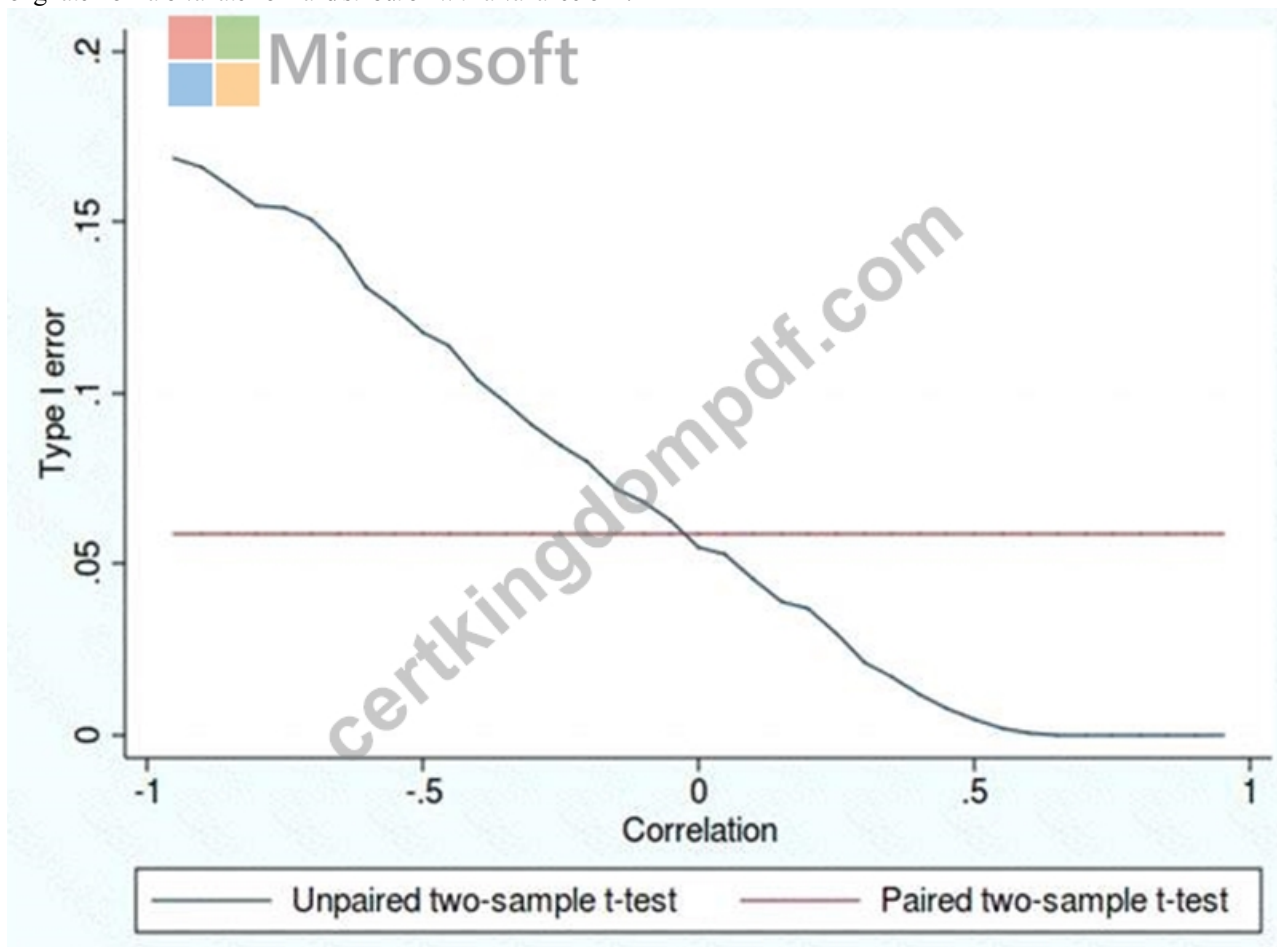
Answer: D

Explanation:

Explanation

Choose a one-tail or two-tail test. The default is a two-tailed test. This is the most common type of test, in which the expected distribution is symmetric around zero.

Example: Type I error of unpaired and paired two-sample t-tests as a function of the correlation. The simulated random numbers originate from a bivariate normal distribution with a variance of 1.



Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/test-hypothesis-using-t-test>

https://en.wikipedia.org/wiki/Student's_t-test

NEW QUESTION # 317

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are using Azure Machine Learning to run an experiment that trains a classification model.

You want to use Hyperdrive to find parameters that optimize the AUC metric for the model. You configure a HyperDriveConfig for the experiment by running the following code:

```
hyperdrive = HyperDriveConfig(estimator=your_estimator,
                              hyperparameter_sampling=your_params,
                              policy=policy,
                              primary_metric_name='AUC',
                              primary_metric_goal=PrimaryMetricGoal.MAXIMIZE,
                              max_total_runs=6,
                              max_concurrent_runs=4)
```

You plan to use this configuration to run a script that trains a random forest model and then tests it with validation data. The label values for the validation data are stored in a variable named `y_test` variable, and the predicted probabilities from the model are stored in a variable named `y_predicted`.

You need to add logging to the script to allow Hyperdrive to optimize hyperparameters for the AUC metric.

Solution: Run the following code:

```
import json, os
from sklearn.metrics import roc_auc_score
# code to train model omitted
auc = roc_auc_score(y_test, y_predicted)
os.makedirs("outputs", exist_ok = True)
with open("outputs/AUC.txt", "w") as file_cur:
    file_cur.write(auc)
```

Does the solution meet the goal?

- A. No
- B. Yes

Answer: B

NEW QUESTION # 318

You have an Azure blob container that contains a set of TSV files. The Azure blob container is registered as a datastore for an Azure Machine Learning service workspace. Each TSV file uses the same data schema.

You plan to aggregate data for all of the TSV files together and then register the aggregated data as a dataset in an Azure Machine Learning workspace by using the Azure Machine Learning SDK for Python.

You run the following code.

```
from azureml.core.workspace import Workspace
from azureml.core.datastore import Datastore
from azureml.core.dataset import Dataset
import pandas as pd
datastore_paths = (datastore, './data/*.tsv')
myDataset_1 = Dataset.File.from_files(path=datastore_paths)
myDataset_2 = Dataset.Tabular.from_delimited_files(path=datastore_paths, separator='\t')
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

	Yes	No
The myDataset_1 dataset can be converted into a pandas dataframe by using the following method: using myDataset_1.to_pandas_dataframe()	☐	☐
The myDataset_1.to_path() method returns an array of file paths for all of the TSV files in the dataset.	☐	☐
The myDataset_2 dataset can be converted into a pandas dataframe by using the following method: myDataset_2.to_pandas_dataframe()	☐	☐

Answer:

Explanation:

	Yes	No
The myDataset_1 dataset can be converted into a pandas dataframe by using the following method: using myDataset_1.to_pandas_dataframe()	☐	☒
The myDataset_1.to_path() method returns an array of file paths for all of the TSV files in the dataset.	☒	☐
The myDataset_2 dataset can be converted into a pandas dataframe by using the following method: myDataset_2.to_pandas_dataframe()	☒	☐

Reference:

<https://docs.microsoft.com/en-us/python/api/azureml-core/azureml.data.tabulardataset>

NEW QUESTION # 319

You have a dataset created for multiclass classification tasks that contains a normalized numerical feature set with 10,000 data points and 150 features.

You use 75 percent of the data points for training and 25 percent for testing. You are using the scikit-learn machine learning library in Python. You use X to denote the feature set and Y to denote class labels.

You create the following Python data frames:

You need to apply the Principal Component Analysis (PCA) method to reduce the dimensionality of the feature set to 10 features in both training and testing sets.

How should you complete the code segment? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

```
from sklearn.decomposition import PCA
```

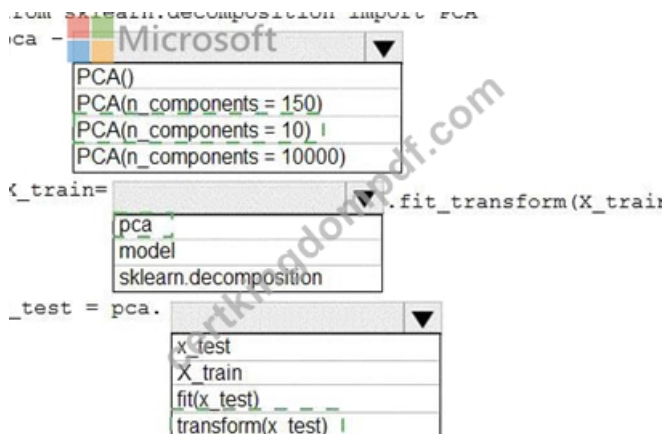
`pca =`

`X_train =`

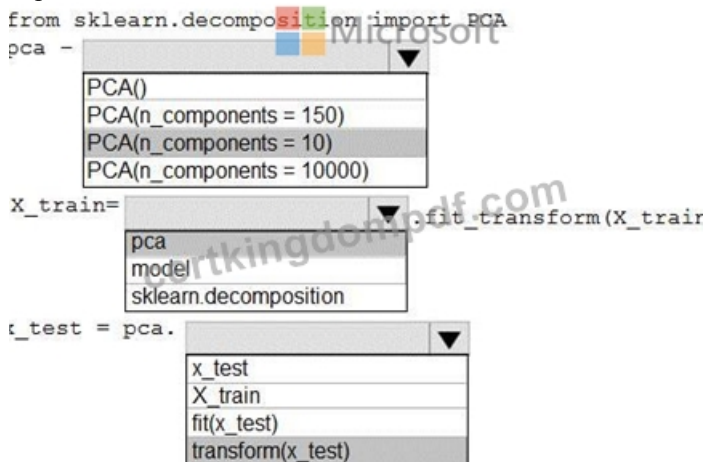
`x_test =`

Answer:

Explanation:



Explanation



Box 1: PCA(n_components = 10)

Need to reduce the dimensionality of the feature set to 10 features in both training and testing sets.

Example:

```
from sklearn.decomposition import PCA
pca = PCA(n_components=2) ;2 dimensions
principalComponents = pca.fit_transform(x)
```

Box 2: pca

fit_transform(X[, y]) fits the model with X and apply the dimensionality reduction on X.

Box 3: transform(x_test)

transform(X) applies dimensionality reduction to X.

References:

<https://scikit-learn.org/stable/modules/generated/sklearn.decomposition.PCA.html>

NEW QUESTION # 320

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