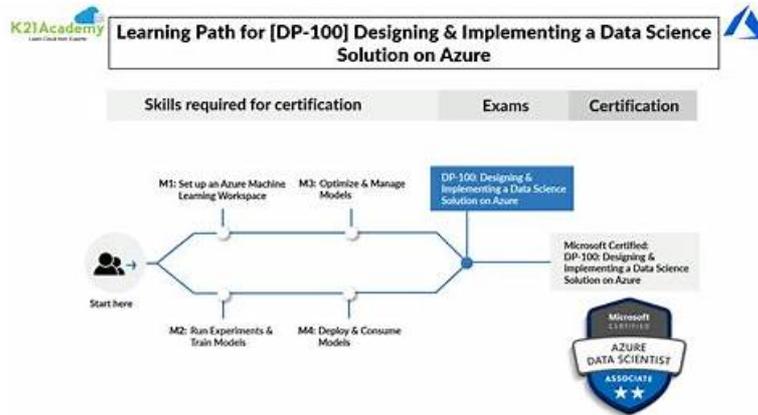


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Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q266-Q271):

NEW QUESTION # 266

You are creating a machine learning model in Python. The provided dataset contains several numerical columns and one text column. The text column represents a product's category. The product category will always be one of the following:

- Bikes
- Cars
- Vans
- Boats

You are building a regression model using the scikit-learn Python package.

You need to transform the text data to be compatible with the scikit-learn Python package.

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 import linear_model
import pandas as df
import numpy as df
import scipy as df

dataset = df.read_csv("data\\ProductSales.csv")
ProductCategoryMapping = {"Bikes":1, "Cars":2, "Boats": 3, "Vans": 4}
dataset['ProductCategoryMapping'] = dataset['ProductCategory'].

regr = linear_model.LinearRegression()
X_train = dataset[['ProductCategoryMapping', 'ProductSize', 'ProductCost']]
y_train = dataset[['Sales']]
regr.fit(X_train, y_train)

```

Answer:

Explanation:

```

from sklearn import linear_model
import pandas as df
import numpy as df
import scipy as df

dataset = df.read_csv("data\\ProductSales.csv")
ProductCategoryMapping = {"Bikes":1, "Cars":2, "Boats": 3, "Vans": 4}
dataset['ProductCategoryMapping'] = dataset['ProductCategory'].

regr = linear_model.LinearRegression()
X_train = dataset[['ProductCategoryMapping', 'ProductSize', 'ProductCost']]
y_train = dataset[['Sales']]
regr.fit(X_train, y_train)

```

NEW QUESTION # 267

You configure a Deep Learning Virtual Machine for Windows.

You need to recommend tools and frameworks to perform the following:

Build deep neural network (DNN) models.

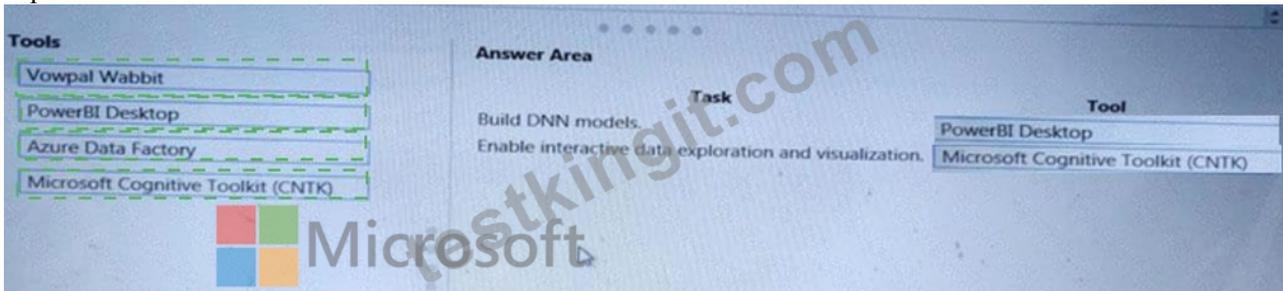
Perform interactive data exploration and visualization.

Which tools and frameworks should you recommend? To answer, drag the appropriate tools to the correct tasks. Each tool may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:



NEW QUESTION # 268

You create an Azure Machine Learning workspace. You use the Azure Machine Learning SDK for Python.

You must create a dataset from remote paths. The dataset must be reusable within the workspace.

You need to create the dataset.

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

NOTE: Each correct selection is worth one point.

Answer Area

```
from azureml.core import Dataset
from azureml.data.dataset_factory import DataType
web_paths = ['https://domain.blob.core.windows.net/demo/dataset1.tsv',
             'https://domain.blob.core.windows.net/demo/dataset2.tsv']

ds = Dataset (path=web_paths)

ds = ds. (workspace=workspace,
```

name= 'ds',
description= 'training data')

Answer:

Explanation:

Answer Area

```
from azureml.core import Dataset
from azureml.data.dataset_factory import DataType
web_paths = ['https://domain.blob.core.windows.net/demo/dataset1.tsv',
             'https://domain.blob.core.windows.net/demo/dataset2.tsv']

ds = Dataset (path=web_paths)

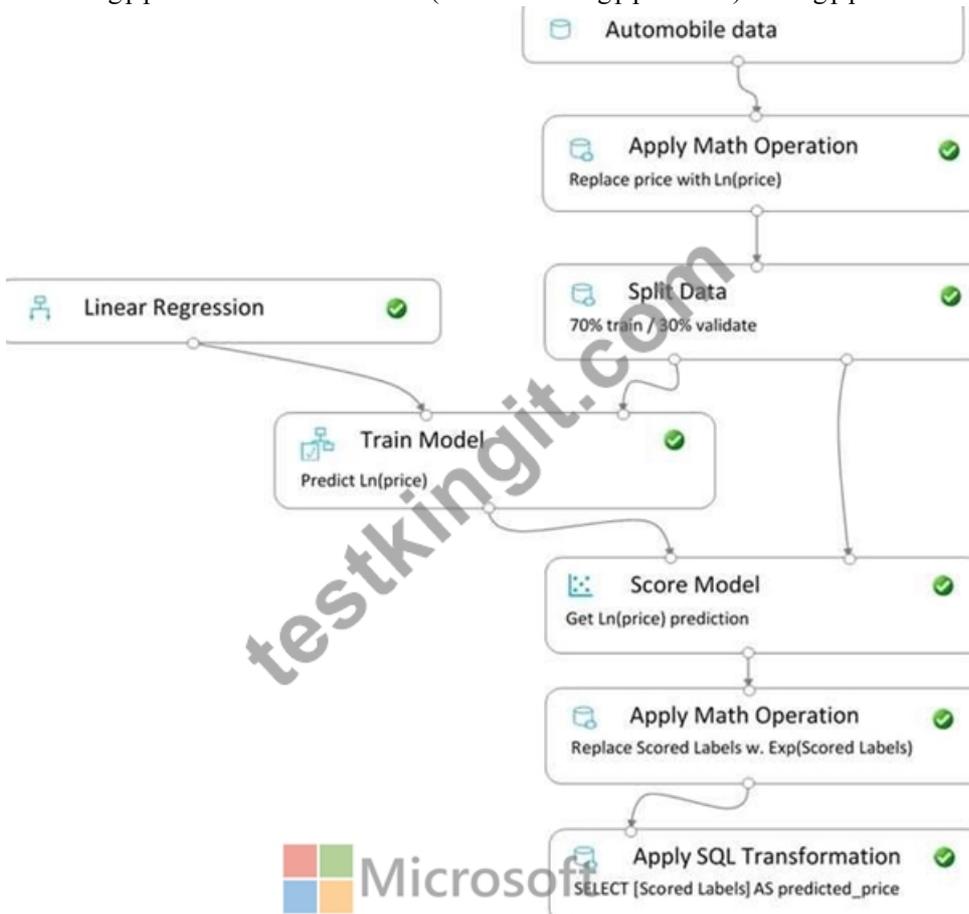
ds = ds. (workspace=workspace,
```

name= 'ds',
description= 'training data')

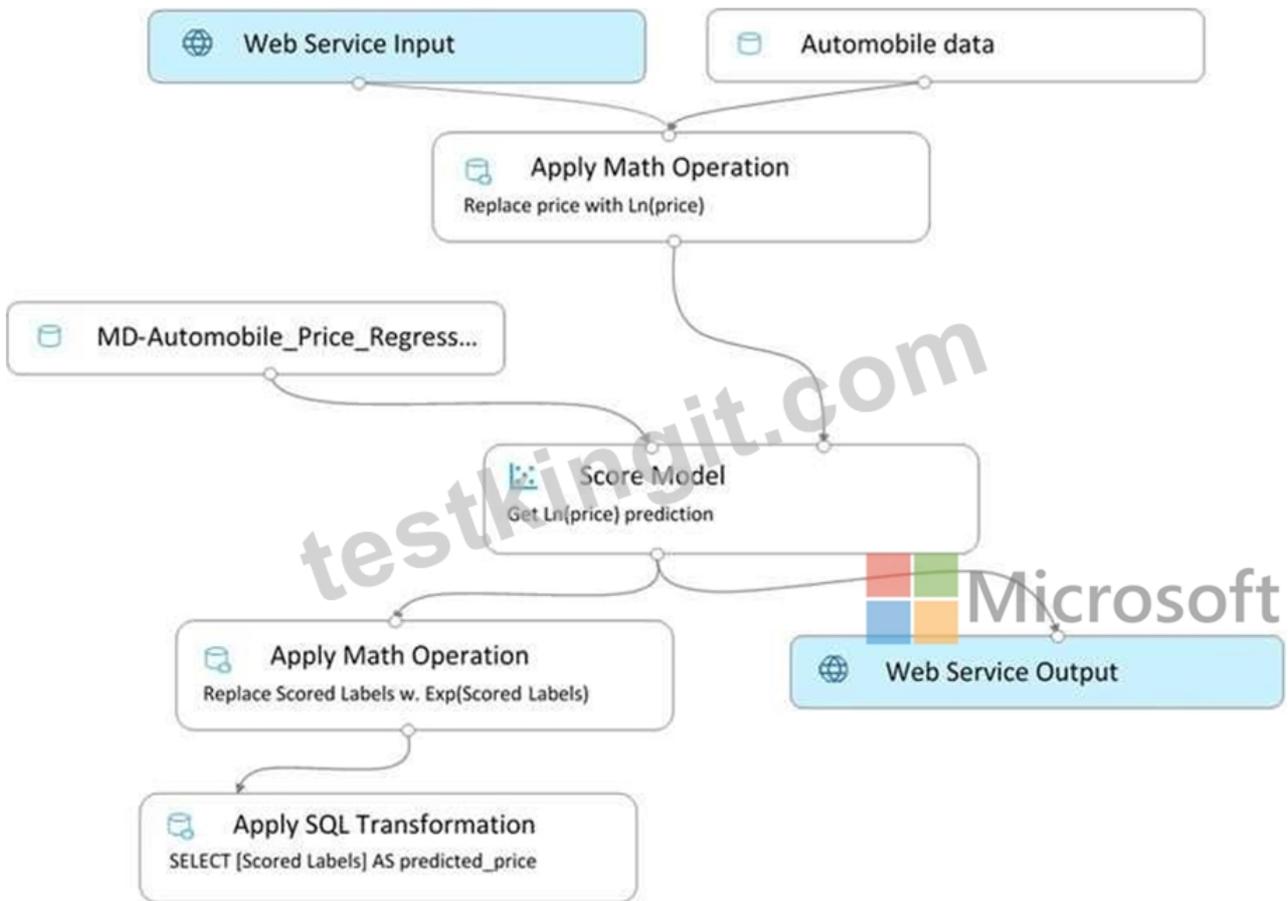
NEW QUESTION # 269

You create a pipeline in designer to train a model that predicts automobile prices.

Because of non-linear relationships in the data, the pipeline calculates the natural log (Ln) of the prices in the training data, trains a model to predict this natural log of price value, and then calculates the exponential of the scored label to get the predicted price. The training pipeline is shown in the exhibit. (Click the Training pipeline tab.) Training pipeline



You create a real-time inference pipeline from the training pipeline, as shown in the exhibit. (Click the Real-time pipeline tab.) Real-time pipeline



You need to modify the inference pipeline to ensure that the web service returns the exponential of the scored label as the predicted automobile price and that client applications are not required to include a price value in the input values. Which three modifications must you make to the inference pipeline? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Connect the output of the Apply SQL Transformation to the Web Service Output module.
- B. Add a Select Columns module before the Score Model module to select all columns other than price.
- C. Remove the Apply SQL Transformation module from the data flow.
- D. Remove the Apply Math Operation module that replaces price with its natural log from the data flow.
- E. Replace the training dataset module with a data input that does not include the price column.
- F. Replace the Web Service Input module with a data input that does not include the price column.

Answer: A,B,D

NEW QUESTION # 270

You train and register a model by using the Azure Machine Learning Python SDK v2 in a local workstation. Python 3.7 and Visual Studio Code are installed on the workstation. When you try to deploy the model into production to a Kubernetes online endpoint you experience an error in the scoring script that causes deployment to fail. You need to debug the service on the local workstation before deploying the service to production. Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions from the answer area and arrange them in the correct order.

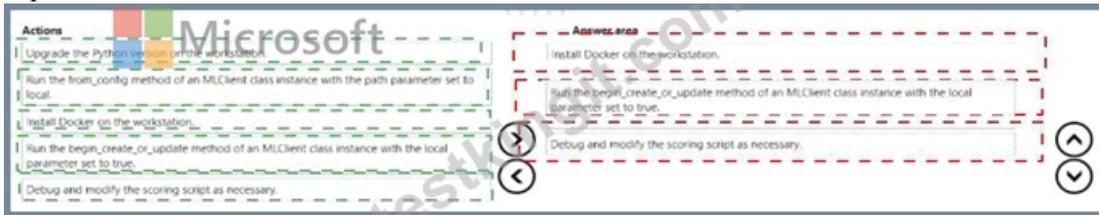
Actions

- Upgrade the Python version on the workstation.
- Run the from_config method of an MLClient class instance with the path parameter set to local.
- Install Docker on the workstation.
- Run the begin_create_or_update method of an MLClient class instance with the local parameter set to true.
- Debug and modify the scoring script as necessary.

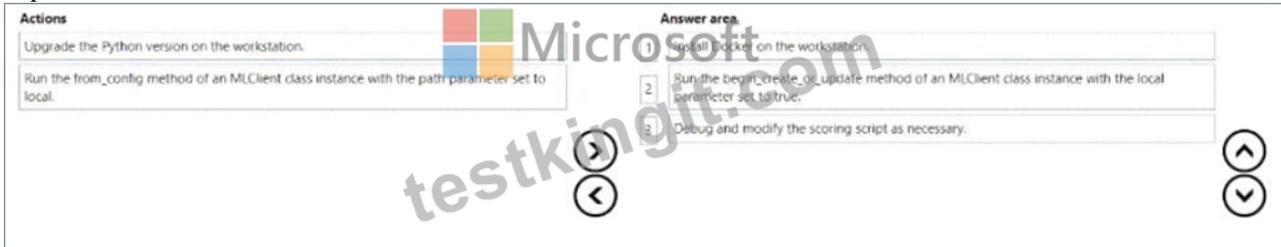
Answer area

Answer:

Explanation:



Explanation



NEW QUESTION # 271

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