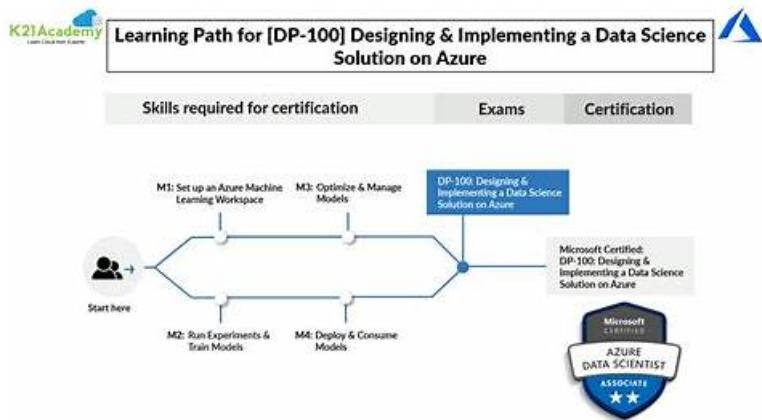


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Microsoft DP-100 Certification Exam covers a wide range of topics related to data science, including data exploration and visualization, data preparation, modeling, and deployment. It also covers various Azure tools and services for data science, such as Azure Machine Learning, Azure Databricks, Azure Stream Analytics, and more. DP-100 exam is designed to test your ability to design and implement end-to-end data science solutions on the Azure platform.

The DP-100 Exam is an excellent opportunity for data scientists and engineers to validate their skills and gain a competitive advantage in the job market. Designing and Implementing a Data Science Solution on Azure certification provides an added advantage for organizations to identify skilled data scientists and engineers who can design and implement data science solutions on Azure.

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Once you have practiced on our Designing and Implementing a Data Science Solution on Azure test questions, the system will automatically memorize and analyze all your practice. You must finish the model test in limited time. There have a timer on the right of the interface. Once you begin to do the exercises of the DP-100 test guide, the timer will start to work and count down. If you don't finish doing the exercises, all your exercises of the DP-100 Exam Questions will be delivered automatically. Then the system will generate a report according to your performance. You will clearly know where you are good at or not. Then you can make your own learning plans based on the report of the DP-100 test guide. Also, you will do more practices that you are not good at until you completely have no problem.

Obligatory Prerequisites

Officially, there is no prior work-experience or educational expertise related to DP-100 Exam. Anyone, willing to make it big in the world of data science, can go for it. However, industry pundits say that beginner-level expertise in concepts like running data experiments and machine learning will make the exam journey a lot more simplified and easy to accomplish.

Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q198-Q203):

NEW QUESTION # 198

You are creating a deep learning model to identify cats and dogs. You have 25,000 color images.

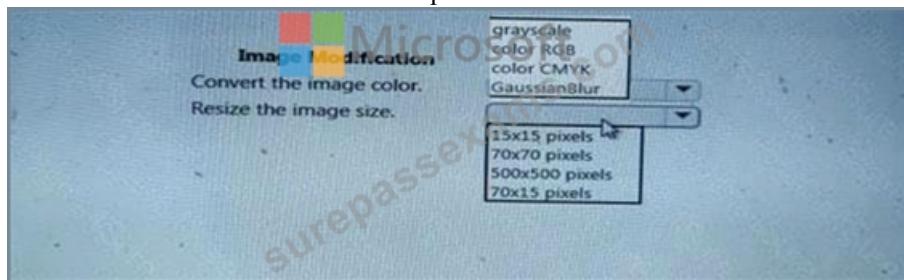
You must meet the following requirements:

- * Reduce the number of training epochs.
- * Reduce the size of the neural network.
- * Reduce over-fitting of the neural network.

You need to select the image modification values.

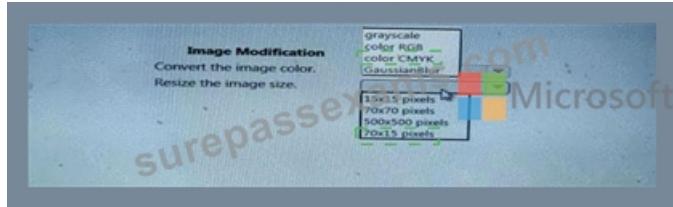
Which value should you use? To answer, select the appropriate Options in the answer area.

NOTE: Each correct selection is worth one point.



Answer:

Explanation:



NEW QUESTION # 199

You plan to preprocess text from CSV files. You load the Azure Machine Learning Studio default stop words list.

You need to configure the Preprocess Text module to meet the following requirements:

Ensure that multiple related words from a single canonical form.

Remove pipe characters from text.

Remove words to optimize information retrieval.

Which three options should you select? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

4 Preprocess Text

Language
English

Remove by part of speech
False

Text column to clean
Selected columns:
Column names: String, Feature

Microsoft

Launch column selector

- Remove stop words
- Lemmatization
- Detect sentences
- Normalize case to lowercase
- Remove numbers
- Remove special characters
- Remove duplicate characters
- Remove email addresses
- Remove URLs
- Expand verb contractions
- Normalize backslashes to slashes
- Split tokens on special characters

Answer:

Explanation:

▲ Preprocess Text

Language

English

Remove by part of speech

False

Text column to clean

Selected columns:

Column names: String, Feature

Launch column selector

- Remove stop words
- Lemmatization
- Detect sentences
- Normalize case to lowercase
- Remove numbers
- Remove special characters
- Remove duplicate characters
- Remove email addresses
- Remove URLs
- Expand verb contractions 
- Normalize backslashes to slashes
- Split tokens on special characters

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Explanation

Text column to clean

Selected columns:

Column names: String, Feature

Launch column selector

Remove stop words

Lemmatization

Detect sentences

 Normalize case to lowercase

Remove numbers

Remove special characters

Remove duplicate characters

Remove email addresses

Remove URLs

Expand verb contractions

Normalize backslashes to slashes

Split tokens on special characters

Box 1: Remove stop words

Remove words to optimize information retrieval.

Remove stop words: Select this option if you want to apply a predefined stopword list to the text column. Stop word removal is performed before any other processes.

Box 2: Lemmatization

Ensure that multiple related words from a single canonical form

Lemmatization converts multiple related words to a single canonical form Box 3: Remove special characters Remove special characters: Use this option to replace any non-alphanumeric special characters with the pipe | character.

References:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/preprocess-text>

NEW QUESTION # 200

You are analyzing a raw dataset that requires cleaning.

You must perform transformations and manipulations by using Azure Machine Learning Studio.

You need to identify the correct modules to perform the transformations.

Which modules should you choose? To answer, drag the appropriate modules to the correct scenarios. Each module 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 Area

Methods	Scenario	Module
Clean Missing Data	Replace missing values by removing rows and columns.	
SMOTE	Increase the number of low-incidence examples in the dataset.	
Convert to Indicator Values	Convert a categorical feature into a binary indicator.	
Remove Duplicate Rows	Remove potential duplicates from a dataset.	
Threshold Filter		

Answer:

Explanation:

Answer Area

Methods	Scenario	Module
Clean Missing Data	Replace missing values by removing rows and columns.	Clean Missing Data
SMOTE	Increase the number of low-incidence examples in the dataset.	SMOTE
Convert to Indicator Values	Convert a categorical feature into a binary indicator.	Convert to Indicator Values
Remove Duplicate Rows	Remove potential duplicates from a dataset.	Remove Duplicate Rows
Threshold Filter		

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/smote>

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/convert-to-indicator-values>

NEW QUESTION # 201

You manage an Azure Machine Learning workspace and a GitHub repository. The GitHub repository contains a CSV file located at <https://raw.githubusercontent.com/account1/repo1/main/doc1/data1.csv>. The CSV file includes embedded newlines.

You plan to consume the content of the CSV file in the workspace. The solution must minimize the possibility of misaligned field values when reading the file content.

You need to create a data asset that references the CSV file.

Which data asset configuration values should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Data asset configuration

Microsoft Configuration

Type: Table

Location: Public http(s) server

Answer:

Explanation:

Data asset configuration

Configuration

Type: Table

Location: Public http(s) server

NEW QUESTION # 202

You use Azure Machine Learning to train and register a model.

You must deploy the model into production as a real-time web service to an inference cluster named service-compute that the IT department has created in the Azure Machine Learning workspace.

Client applications consuming the deployed web service must be authenticated based on their Azure Active Directory service principal.

You need to write a script that uses the Azure Machine Learning SDK to deploy the model. The necessary modules have been imported.

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

NOTE: Each correct selection is worth one point.

```

# Assume the necessary modules have been imported
deploy_target = AksCompute(ws, "service-compute")
deployment_config = AksWebService(ws).deploy_configuration(cpu_cores=1, memory_gb=1,
)
token_auth_enabled=True
token_auth_enabled=False
auth_enabled=True
auth_enabled=False
service = Model.deploy(ws, "ml-service",
[model], inference_config, deployment_config, deploy_target)
service.wait_for_deployment(show_output = True)

```

Answer:

Explanation:

```

# Assume the necessary modules have been imported
deploy_target = AksCompute(ws, "service-compute")
AksCompute
AmlCompute
RemoteCompute
BatchCompute
AksWebService
AciWebService
LocalWebService
)
token_auth_enabled=True
token_auth_enabled=False
auth_enabled=True
auth_enabled=False
service = Model.deploy(ws, "ml-service",
[model], inference_config, deployment_config, deploy_target)
service.wait_for_deployment(show_output = True)

```

Explanation:

Box 1: AksCompute

Example:

```
aks_target = AksCompute(ws, "myaks")
```

```
# If deploying to a cluster configured for dev/test, ensure that it was created with enough
# cores and memory to handle this deployment configuration. Note that memory is also used by
# things such as dependencies and AML components.
```

```
deployment_config = AksWebService.deploy_configuration(cpu_cores = 1, memory_gb = 1) service = Model.deploy(ws,
"myservice", [model], inference_config, deployment_config, aks_target) Box 2: AksWebService Box 3: token_auth_enabled=True
```

Whether or not token auth is enabled for the Webservice.

Note: A Service principal defined in Azure Active Directory (Azure AD) can act as a principal on which authentication and authorization policies can be enforced in Azure Databricks.

The Azure Active Directory Authentication Library (ADAL) can be used to programmatically get an Azure AD access token for a user.

Incorrect Answers:

auth_enabled (bool): Whether or not to enable key auth for this Webservice. Defaults to True.

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/how-to-deploy-azure-kubernetes-service>

<https://docs.microsoft.com/en-us/azure/databricks/dev-tools/api/latest/aad/service-prin-aad-token>

NEW QUESTION # 203

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