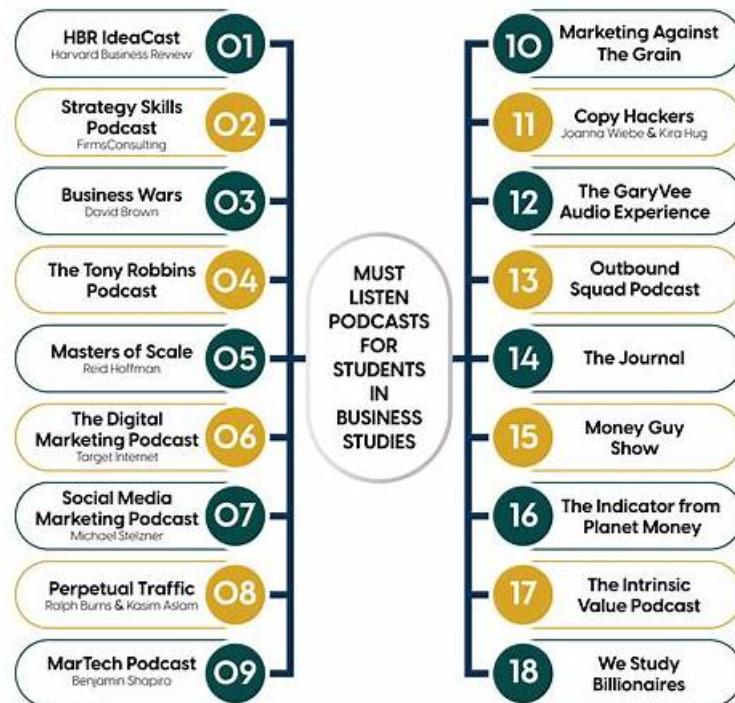


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Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q518-Q523):

NEW QUESTION # 518

You have a dataset that contains over 150 features. You use the dataset to train a Support Vector Machine (SVM) binary classifier. You need to use the Permutation Feature Importance module in Azure Machine Learning Studio to compute a set of feature importance scores for the dataset.

In which order should you perform the actions? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order.

Answer:

Explanation:

Explanation:

Step 1: Add a Two-Class Support Vector Machine module to initialize the SVM classifier.

Step 2: Add a dataset to the experiment

Step 3: Add a Split Data module to create training and test dataset.

To generate a set of feature scores requires that you have an already trained model, as well as a test dataset.

Step 4: Add a Permutation Feature Importance module and connect to the trained model and test dataset.

Step 5: Set the Metric for measuring performance property to Classification - Accuracy and then run the experiment.

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/two-class-support-vector-machine>

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

NEW QUESTION # 519

You are preparing to build a deep learning convolutional neural network model for image classification. You create a script to train the model using CUDA devices.

You must submit an experiment that runs this script in the Azure Machine Learning workspace.

The following compute resources are available:

a Microsoft Surface device on which Microsoft Office has been installed. Corporate IT policies prevent the installation of additional software a Compute Instance named ds-workstation in the workspace with 2 CPUs and 8 GB of memory an Azure Machine Learning compute target named cpu-cluster with eight CPU-based nodes an Azure Machine Learning compute target named gpu-cluster with four CPU and GPU-based nodes You need to specify the compute resources to be used for running the code to submit the experiment, and for running the script in order to minimize model training time.

Which resources should the data scientist use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

NEW QUESTION # 520

You manage an Azure Machine Learning workspace. You build automated machine learning training experiments for computer vision models.

You need to use a primary metric for model optimization and hyperparameter tuning for each model.

Which primary metrics should you use for the models? To answer, move the appropriate primary metrics to the correct computer vision models. You may use each primary metric once, more than once, or not at all.

You may need to move the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

□

Answer:

Explanation:

□

Explanation:

□

NEW QUESTION # 521

You develop and train a machine learning model to predict fraudulent transactions for a hotel booking website.

Traffic to the site varies considerably. The site experiences heavy traffic on Monday and Friday and much lower traffic on other days. Holidays are also high web traffic days.

You need to deploy the model as an Azure Machine Learning real-time web service endpoint on compute that can dynamically scale up and down to support demand.

Which deployment compute option should you use?

- A. attached Azure Databricks cluster
- **B. Azure Machine Learning Compute Instance**
- C. attached virtual machine in a different region
- D. Azure Kubernetes Service (AKS) inference cluster
- E. Azure Container Instance (ACI)

Answer: B

Explanation:

Azure Machine Learning compute cluster is a managed-compute infrastructure that allows you to easily create a single or multi-node compute. The compute is created within your workspace region as a resource that can be shared with other users in your workspace. The compute scales up automatically when a job is submitted, and can be put in an Azure Virtual Network.

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/how-to-create-attach-compute-sdk>

NEW QUESTION # 522

You manage an Azure Machine Learning workspace. You configure an automated machine learning regression training job by using the Azure Machine Learning Python SDK v2. You configure the regression job by using the following script:

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

□

Answer:

Explanation:

□

Explanation

□

NEW QUESTION # 523

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