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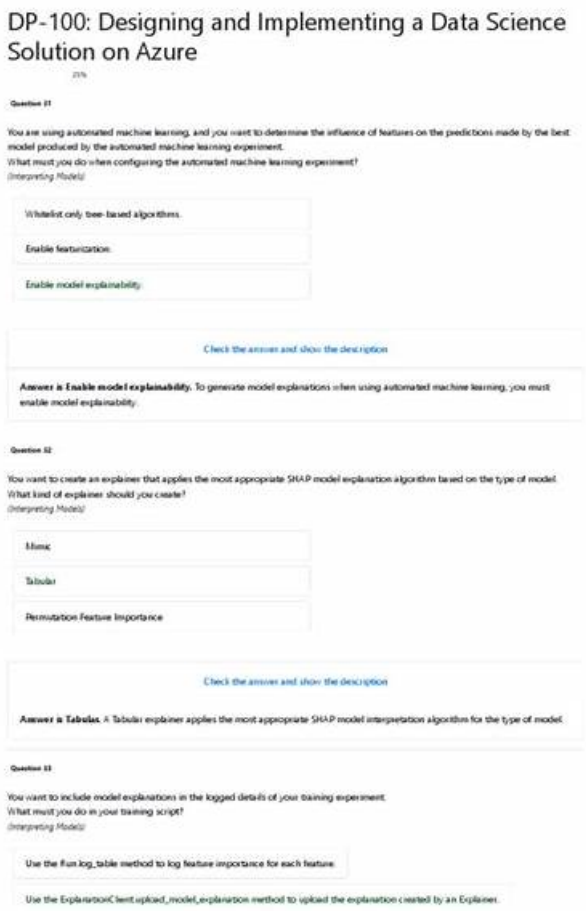
DP-100: Designing and Implementing a Data Science Solution on Azure

Question #1

You are using automated machine learning, and you want to determine the influence of features on the predictions made by the best model produced by the automated machine learning experiment.
What must you do when configuring the automated machine learning experiment?
(Interpreting Models)

Whitelist only tree-based algorithms.

Enable featurization.

Enable model explainability.

Check the answer and show the description

Answer is Enable model explainability. To generate model explanations when using automated machine learning, you must enable model explainability.

Question #2

You want to create an explainer that applies the most appropriate SHAP model explanation algorithm based on the type of model.
What kind of explainer should you create?
(Interpreting Models)

Mimic

Tabular

Permutation Feature Importance

Check the answer and show the description

Answer is Tabular. A Tabular explainer applies the most appropriate SHAP model interpretation algorithm for the type of model.

Question #3

You want to include model explanations in the logged details of your training experiment.
What must you do in your training script?
(Interpreting Models)

Use the flun log_table method to log feature importance for each feature.

Use the ExplanationClient.upload_model_explanation method to upload the explanation created by an Explainer.

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Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q30-Q35):

NEW QUESTION # 30
You are using the Azure Machine Learning Service to automate hyperparameter exploration of your neural network classification model.
You must define the hyperparameter space to automatically tune hyperparameters using random sampling according to following requirements:
* The learning rate must be selected from a normal distribution with a mean value of 10 and a standard deviation of 3.
* Batch size must be 16, 32 and 64.
* Keep probability must be a value selected from a uniform distribution between the range of 0.05 and 0.1.
You need to use the param_sampling method of the Python API for the Azure Machine Learning Service.
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.

Answer:

Explanation:
Explanation
In random sampling, hyperparameter values are randomly selected from the defined search space. Random sampling allows the search space to include both discrete and continuous hyperparameters.
Example:
from azureml.train.hyperdrive import RandomParameterSampling
param_sampling = RandomParameterSampling({
"learning_rate": normal(10, 3),
"keep_probability": uniform(0.05, 0.1),
"batch_size": choice(16, 32, 64)
}
Reference:
https://docs.microsoft.com/en-us/azure/machine-learning/service/how-to-tune-hyperparameters

NEW QUESTION # 31
You train classification and regression models by using automated machine learning.
You must evaluate automated machine learning experiment results. The results include how a classification model is making systematic errors in its predictions and the relationship between the target feature and the regression model's predictions. You must use charts generated by automated machine learning.
You need to choose a chart type for each model type.
Which chart types 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 # 32
You are implementing hyperparameter tuning by using Bayesian sampling for a model training from a notebook. The notebook is in an Azure Machine Learning workspace that uses a compute cluster with 20 nodes.
The code implements Bandit termination policy with slack factor set to 0.2 and the HyperDriveConfig class instance with max_concurrent_runs set to 10.
You must increase effectiveness of the tuning process by improving sampling convergence.
You need to select which sampling convergence to use.
What should you select?

- A. Set the value of slack factor of early_termination_policy to 09.
- B. Set the value of slack factor of early_termination_policy to 0.1.
- C. Set the value of max_concurrent_runs of HyperDriveConfig to 4.
- D. Set the value of max_concurrent_runs of HyperDriveConfig to 20.

Answer: C

Explanation:
The number of concurrent jobs has an impact on the effectiveness of the tuning process. A
"smaller number of concurrent jobs" may lead to "better sampling convergence", since the smaller degree of parallelism increases the number of jobs that benefit from previously completed jobs.

NEW QUESTION # 33
You have an Azure Machine Learning workspace. You are running an experiment on your local computer.
You need to use MLflow Tracking to store metrics and artifacts from your local experiment runs in the workspace.
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:
1 - Import MLflow and Workspace classes.
2 - Load the workspace.
3 - Retrieve the tracking URI and set the experiment name.
4 - Start a training run and activate the MLflow logging API.

NEW QUESTION # 34
You are creating a new experiment in Azure Machine Learning Studio. You have a small dataset that has missing values in many columns. The data does not require the application of predictors for each column. You plan to use the Clean Missing Data module to handle the missing data.
You need to select a data cleaning method.
Which method should you use?

- A. Replace using; Probabilistic PCA
- B. Normalization
- C. Synthetic Minority Oversampling Technique (SMOTE)
- D. Replace using MICE

Answer: A

Explanation:
Replace using Probabilistic PCA: Compared to other options, such as Multiple Imputation using Chained Equations (MICE), this option has the advantage of not requiring the application of predictors for each column. Instead, it approximates the covariance for the full dataset. Therefore, it might offer better performance for datasets that have missing values in many columns.
References:
https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/clean-missing-data

NEW QUESTION # 35

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