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https://www.analyticsvidhya.com/blog/2018/04/fundamentals-deep-learning-regularization-techniques/Question: 13   You need to implement a model development strategy to determine a user's tendency to respond to anad.Which technique should you use?A.   Use a Relative Expression Split module to partition the data based on centroid distance.B.   Use a Relative Expression Split module to partition the data based on distance travelled to the event.C.   Use a Split Rows module to partition the data based on distance travelled to the event.D.   Use a Split Rows module to partition the data based on centroid distance.Answer: A Explanation:Split Data partitions the rows of a dataset into two distinct sets.The Relative Expression Split option in the Split Data module of Azure Machine Learning Studio is helpful when you need to divide a dataset into training and testing datasets using a numerical expression.Relative Expression Split: Use this option whenever you want to apply a condition to a number column. The number could be a date/time field, a column containing age or dollar amounts, or even a percentage. For example, you might want to divide your data set depending on the cost of the items, group people by age ranges, or separate data by a calendar date.Scenario: Local market segmentation models will be applied before determining a user's propensity to respond to an advertisement.The distribution of features across training and production data are not consistent References:

https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/split-dataQuestion: 14   You need to implement a new cost factor scenario for the ad response models as illustrated in the performance curve exhibit.Which technique should you use?A.   Set the threshold to 0.5 and retrain if weighted Kappa deviates +/- 5% from 0.45.B.   Set the threshold to 0.05 and retrain if weighted Kappa deviates +/- 5% from 0.5.C.   Set the threshold to 0.2 and retrain if weighted Kappa deviates +/- 5% from 0.6.D.   Set the threshold to 0.75 and retrain if weighted Kappa deviates +/- 5% from 0.15.Answer: A   Explanation: Scenario: Performance curves of current and proposed cost factor scenarios are shown in the following diagram:The ad propensity model uses a cut threshold is 0.45 and retrains occur if weighted Kappa deviated from 0.1 +/- 5%.Case Study: 2Case study OverviewYou are a data scientist for Fabrikam Residences, a company specializing in quality private and commercial property in the United States. Fabrikam Residences is considering expanding into Europe and has asked you to investigate prices for private residences in major European cities. You use Azure Machine Learning Studio to measure the median value of properties. You produce a regression model to predict property prices by using the Linear Regression and Bayesian Linear Regression modules.DatasetsThere are two datasets in CSV format that contain property details for two cities, London and Paris, with the following columns:The two datasets have been added to Azure Machine Learning Studio as separate datasets and included as the starting point of the experiment.Dataset issuesThe AccessibilityToHighway column in both datasets contains missing values. The missing data must be replaced with new data so that it is modeled conditionally using the other variables in the data before filling in the missing values.Columns in each dataset contain missing and null values. The dataset also contains many outliers. The Age column has a high proportion of outliers. You need to remove the rows that have outliers in the Age column. The MedianValue and AvgRoomsinHouse columns both hold data in numeric format. You need to select a feature selection algorithm to analyze the relationship between the two columns in more detail.Model fitThe model shows signs of overfitting. You need to produce a more refined regression model that reduces the overfitting.Experiment requirementsYou must set up the experiment to cross-validate the Linear Regression and Bayesian Linear Regression modules to evaluate performance.In each case, the predictor of the dataset is the column named MedianValue. An initial investigation showed that the datasets are identical in structure apart from the MedianValue column. The smaller Paris dataset contains the MedianValue in text format, whereas the larger London dataset contains the MedianValue in numerical format. You must ensure that the datatype of the MedianValue column of the Paris dataset matches the structure of the London dataset.You must prioritize the columns of data for predicting the outcome. You must use non-parameters statistics to measure the relationships.You must use a feature selection algorithm to analyze the relationship between the MedianValue and AvgRoomsinHouse columns.Model

trainingGiven a trained model and a test dataset, you need to compute the permutation feature importance scores of feature variables. You need to set up the Permutation Feature Importance module to select the correct metric to investigate the model's accuracy and replicate the findings.You want to configure hyperparameters in the model learning process to speed the learning phase by using hyperparameters. In addition, this configuration should cancel the lowest performing runs at each evaluation interval, thereby directing effort and resources towards models that are more likely to be successful.You are concerned that the model might not efficiently use compute resources in hyperparameter tuning. You also are concerned that the model might prevent an increase in the overall tuning time. Therefore, you need to implement an early stopping criterion on models that provides savings without terminating promising jobs.TestingYou must produce multiple partitions of a dataset based on sampling using the Partition and Sample module in Azure Machine Learning Studio. You must create three equal partitions for cross-validation. You must also configure the cross-validation process so that the rows in the test and training datasets are divided evenly by properties that are near each city's main river. The data that identifies that a property is near a river is held in the column named NextToRiver. You want to complete this task before the data goes through the sampling process.When you train a Linear Regression module using a property dataset that shows data for property prices for a large city, you need to determine the best features to use in a model. You can choose standard metrics provided to measure performance before and after the feature importance process completes. You must ensure that the distribution of the features across multiple training models is consistent.Data visualizationYou need to provide the test results to the Fabrikam Residences team. You create data visualizations to aid in presenting the results.You must produce a Receiver Operating Characteristic (ROC) curve to conduct a diagnostic test evaluation of the model. You need to select appropriate methods for producing the ROC curve in Azure Machine Learning Studio to compare the Two-Class Decision Forest and the Two-Class Decision Jungle modules with one another.Question: 15   DRAG DROPYou need to implement early stopping criteria as suited in the model training requirements.Which three code segments should you use to develop the solution? To answer, move the appropriate code segments from the list of code segments to the answer area and arrange them in the correct order.NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select. Answer: Explanation:You need to implement an early stopping criterion on models that provides savings without terminating promising jobs.Truncation selection cancels a given percentage of lowest performing runs at each evaluation interval. Runs are compared based on their performance on the primary metric and the lowest X% are terminated.Example:from azureml.train.hyperdrive import TruncationSelectionPolicy early_termination_policy=TruncationSelectionPolicy(evaluation_interval=1, truncation_percentage=20, delay_evaluation=5)Incorrect Answers:Bandit is a termination policy based on slack factor/slack amount and evaluation interval. The policy early terminates any runs where the primary metric is not within the specified slack factor / slack amount with respect to the best performing training run.Example:from azureml.train.hyperdrive import BanditPolicyearly_termination_policy = BanditPolicy(slack_factor = 0.1, evaluation_interval=1, delay_evaluation=5 References:
https://docs.microsoft.com/en-us/azure/machine-learning/service/how-to-tune-hyperparameters Question: 16   HOTSPOTYou need to identify the methods for dividing the data according, to the testing requirements.Which properties should you select? To answer, select the appropriate option-, m the answer area. NOTE: Each correct selection is worth one point. Answer: Question: 17   HOTSPOTYou need to configure the Permutation Feature Importance module for the model framing requirements.What should you do? To answer, select the appropriate options in the dialog box in the answer area- NOTE: Each correct selection is worth one point. Answer: Question: 18   HOTSPOTYou need to configure the Edit Metadata module so that the structure of the datasets match. Which configuration options should you select? To answer, select the appropriate options in the answer area.NOTE: Each correct selection is worth one point. Answer: Explanation: Question: 19   DRAG DROPYou need to correct the model fit issue. Which three actions should you perform   in sequence?   To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order. Answer: Question: 20   DRAG DROPYou need to visually identify whether outliers exist in the Age column and quantify the outliers before the outliers are removed.Which three Azure Machine Learning Studio modules should you use in sequence? To answer, move the appropriate modules from the list of modules to the answer area and arrange them in the correct order. Answer: **Question: 21   HOTSPOT**You need to replace the missing data in the AccessibilityToHighway columns.How should you configure the Clean Missing Data module? To answer, select the appropriate options in the answer area.NOTE: Each correct selection is worth one point.**Answer:**   Explanation:Box 1: Replace using MICE Replace using MICE: For each missing value, this option assigns a new value, which is calculated by using a method described in the statistical literature as "Multivariate Imputation using Chained Equations" or "Multiple Imputation by Chained Equations". With a multiple imputation method, each variable with missing data is modeled conditionally using the other variables in the data before filling in the missing values.Scenario: The AccessibilityToHighway column in both datasets contains missing values. The missing data must be replaced with new data so that it is modeled conditionally using the other variables in the data before filling in the

missing values.Box 2: PropagateCols with all missing values indicate if columns of all missing values should be preserved in the output.References:**https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/clean-missing-data**
Question: 22   DRAG DROPYou need to produce a visualization for the diagnostic test evaluation according to the data visualization requirements.Which three modules should you recommend be used in sequence? To answer, move the appropriate modules from the list of modules to the answer area and arrange them in the correct order. Answer: Explanation:Step 1: Sweep ClusteringStart by using the "Tune Model Hyperparameters" module to select the best sets of parameters for each of the models we're considering.One of the interesting things about the "Tune Model Hyperparameters" module is that it not only outputs the results from the Tuning, it also outputs the Trained Model.Step 2: Train Model Step 3: Evaluate ModelScenario: You need to provide the test results to the Fabrikam Residences team. You create data visualizations to aid in presenting the results.You must produce a Receiver Operating Characteristic (ROC) curve to conduct a diagnostic test evaluation of the model. You need to select appropriate methods for producing the ROC curve in Azure Machine Learning Studio to compare the Two-Class Decision Forest and the Two-Class Decision Jungle modules with one another.References:

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